APM Usage Monitor
User Manual

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1. Introduction

The *APM Usage Monitor*, in the following called APM-UM, is an add-on module for SAP customers faced with the challenging task of maintaining the integrity of their SAP authorization concepts and license administration.

The APM-UM is composed of two components. The first is an ABAP add-on that is installed on all SAP systems where the APM-UM is to be used. The second is a web application that is installed on a separate web server. The SAP GUI is used for all access to the APM-UM, as the ABAP add-on package on the SAP system manages the interaction between the SAP GUI and the web server.

The present user documentation will take you through the following topics:

System landscape:	Understanding the system landscape of the APM-UM.
User guide:	A user guide giving detailed information about the functionality and usage of the APM-UM.

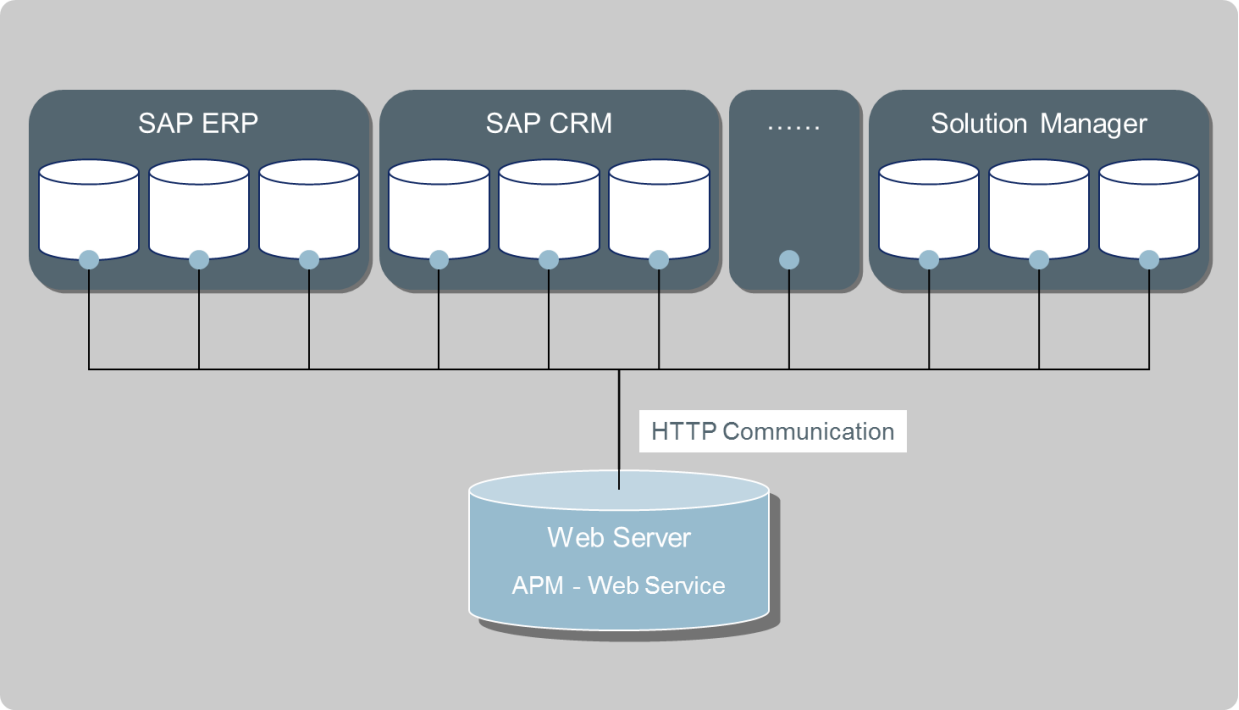
Any comments or questions Mail: sas@applicon.dk or call: +45 52195118

2. System landscape

The APM-UM consists of two components:

- An ABAP add-on package (blue dot on drawing) is installed on the SAP systems relevant for using the APM-UM.

- A MySQL/PHP web application containing the majority of the APM-UM solution. The web application is installed on a web server.



The SAP systems communicate with the web server via HTTP using a standard RFC destination.

The APM-UM is called from any of the SAP systems with the following Tcode:

- /N/APPLISOL/APMUM APM-UM

3. User guide for APM-UM

We created APM-UM hand-in-hand with our Authorization Process Manager customers, who asked us to solve another pain point: the year-to-year accumulation of obsolete roles. Authorization Process Manager customers were also overspending on licenses due to poor visibility into roles and access levels. APM-UM solves these issues.

APM-UM is a sister product to the Authorization Process Manager delivered in the same software package but with individual license keys.
APM-UM provides continuous monitoring of users' role usage in support of processes such as yearly access review, role redesign, removal of critical access rights, adjustment of users to their correct license category, and more. APM-UM enables you to know the impact of changes before they are implemented, rather than relying on unproven assumptions and handling unforeseen consequences after changes are made.

The APM-UM contains six different tabs. These are the following

- About
- Authorization Dashboard
- License Dashboard
- License Categories
- Reports
- Role Journal

In the following, the content of each tab in APM-UM will be described.

4. About

The "About" page is an informative section displaying the APM-UM version, support contact information, data health status, and blog posts from Applicon Solutions,

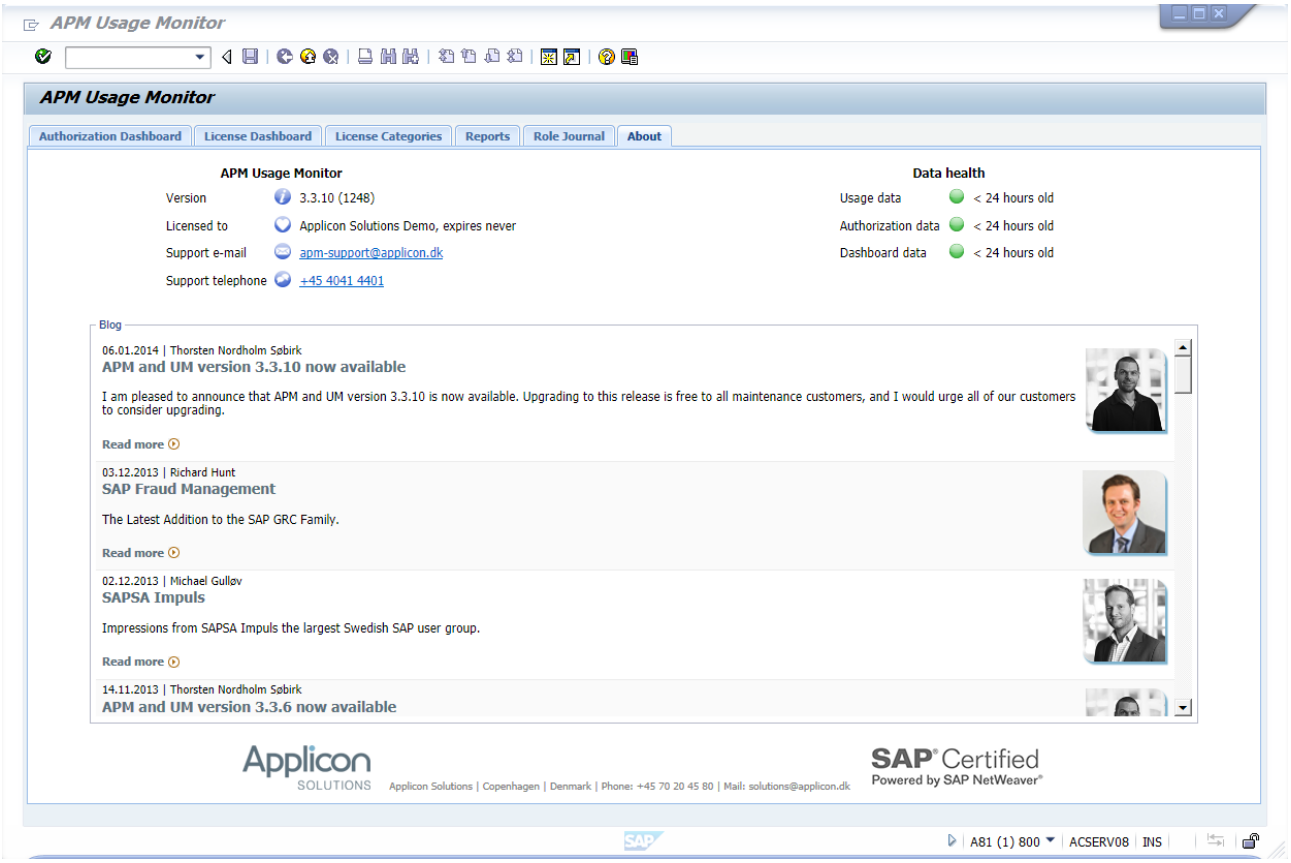
Data health displays information about when the last data collection occurred. Data collections are performed by scheduled batch jobs, which we normally recommend to run once a day. For recommendations and technical setup of the batch jobs, please refer to the installation guide.

There are three types of data collection jobs in APM-UM:

Usage data:	Collects the usage data, which specifies which users have executed which tcode and when
Authorization data:	Collects and synchronizes the authorization data. The authorization data in APM-UM is defined as the users on the SAP system, the roles that are assigned to these users, and the tcodes contained in the assigned roles
Dashboard data:	After APM-UM has collected usage data and the authorization data, the last batch job processes the data, making it available for reporting and the dashboards

Please note: If any of the batch jobs have failed to run and the data collection is incomplete, this will be indicated in the data health section with a red circle

The blog posts shown in APM-UM are those that we publish on our homepage: www.appliconsolutions.com. By doing this we hope that it is easier for our customers to get information on new releases and tool enhancement information.


APM Usage Monitor
APM Usage Monitor
Authorization Dashboard
License Dashboard
License Categories
Reports
Role Journal
About
APM Usage Monitor
Version
3.3.10 (1248)
Licensed to
Applicon Solutions Demo, expires never
Support e-mail
apm-support@applicon.dk
Support telephone
+45 4041 4401
Data health
Usage data
< 24 hours old
Authorization data
< 24 hours old
Dashboard data
< 24 hours old
Blog
06.01.2014 | Thorsten Nordholm Søbirk
APM and UM version 3.3.10 now available
I am pleased to announce that APM and UM version 3.3.10 is now available. Upgrading to this release is free to all maintenance customers, and I would urge all of our customers to consider upgrading.
Read more
03.12.2013 | Richard Hunt
SAP Fraud Management
The Latest Addition to the SAP GRC Family.
Read more
02.12.2013 | Michael Gulløv
SAPSA Impuls
Impressions from SAPSA Impuls the largest Swedish SAP user group.
Read more
14.11.2013 | Thorsten Nordholm Søbirk
APM and UM version 3.3.6 now available
Applicon
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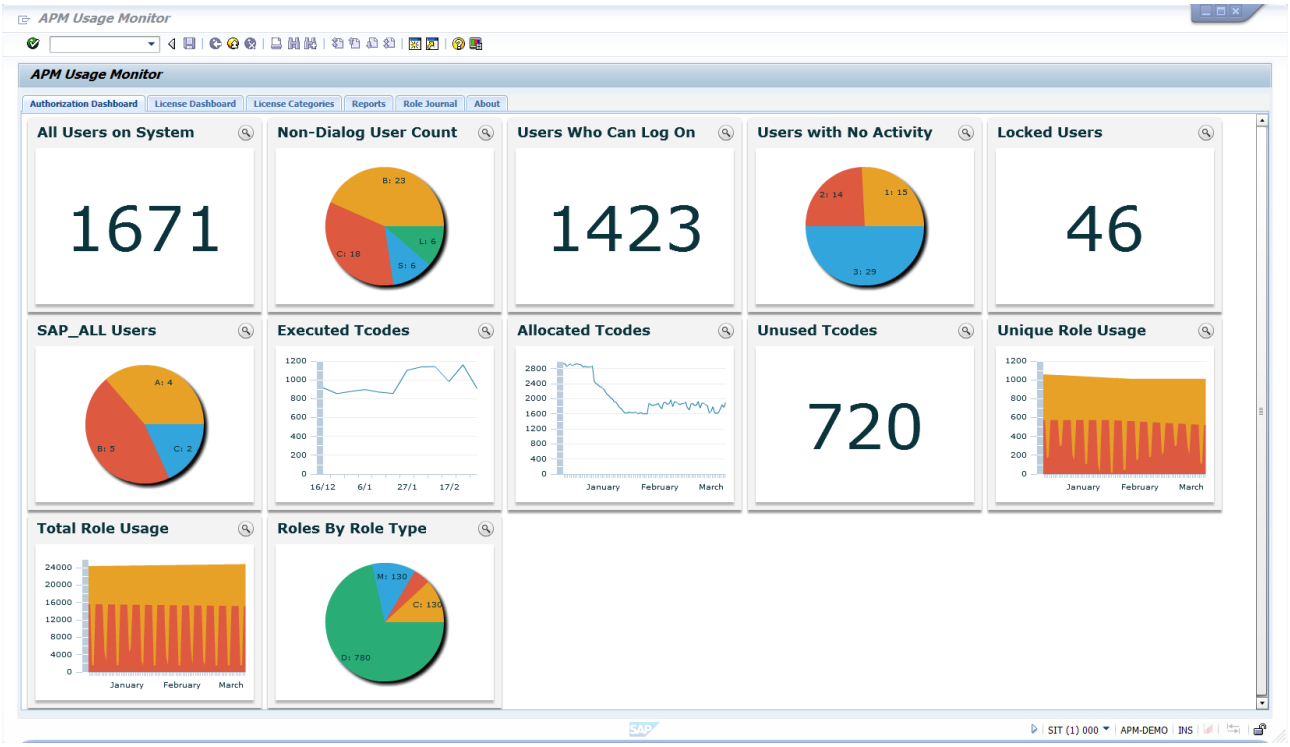
5. Authorization Dashboard

With the unique combination of data made available in APM-UM, the APM-UM delivers a graphical dashboard showing instant information about the authorization concept - both as-is information and seen in a historical perspective.

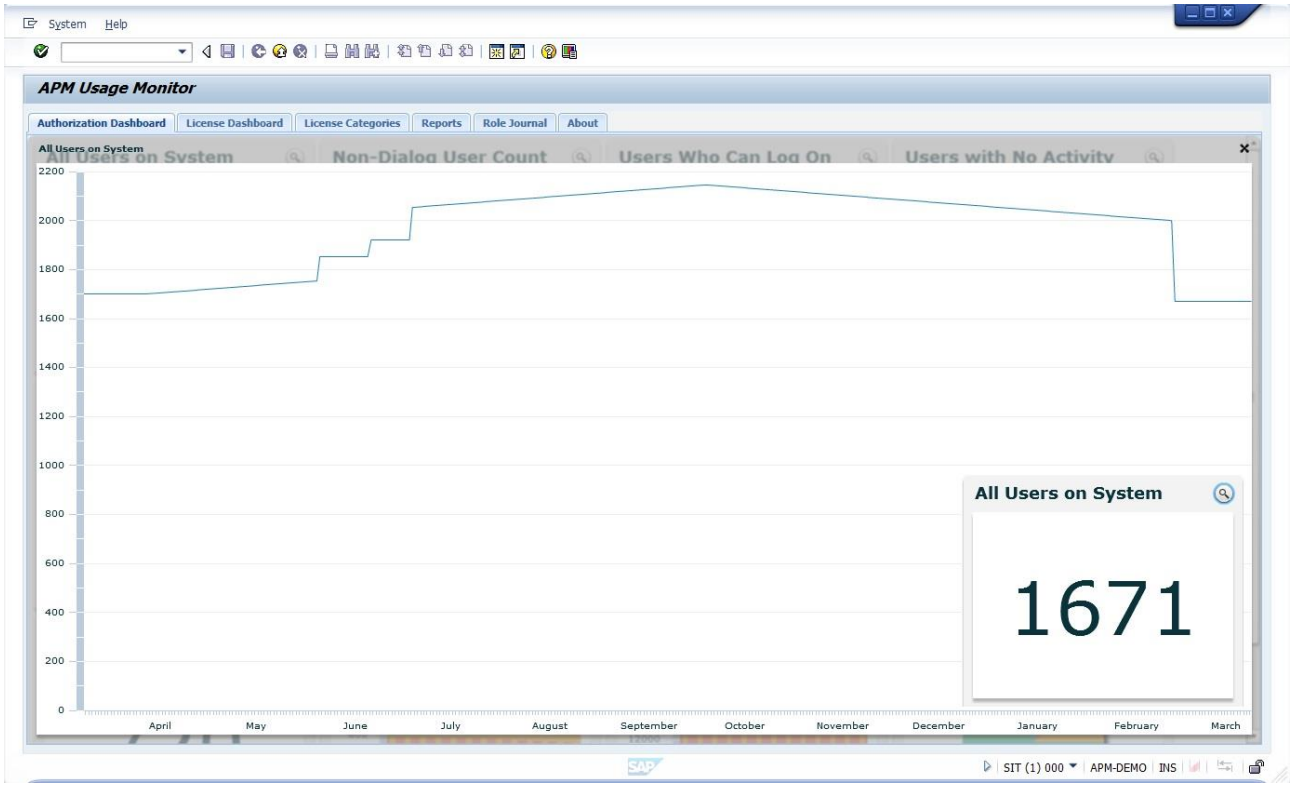


The Authorization dashboard contains the following views

- All Users on system
- Non-Dialog User Count
- Users Who Can Log On
- Users with no activity
- Locked users
- SAP_ALL users
- Executed Tcodes
- Allocated Tcodes
- Unused Tcodes
- Unique Role Usage
- Total Role Usage
- Roles By Role Type

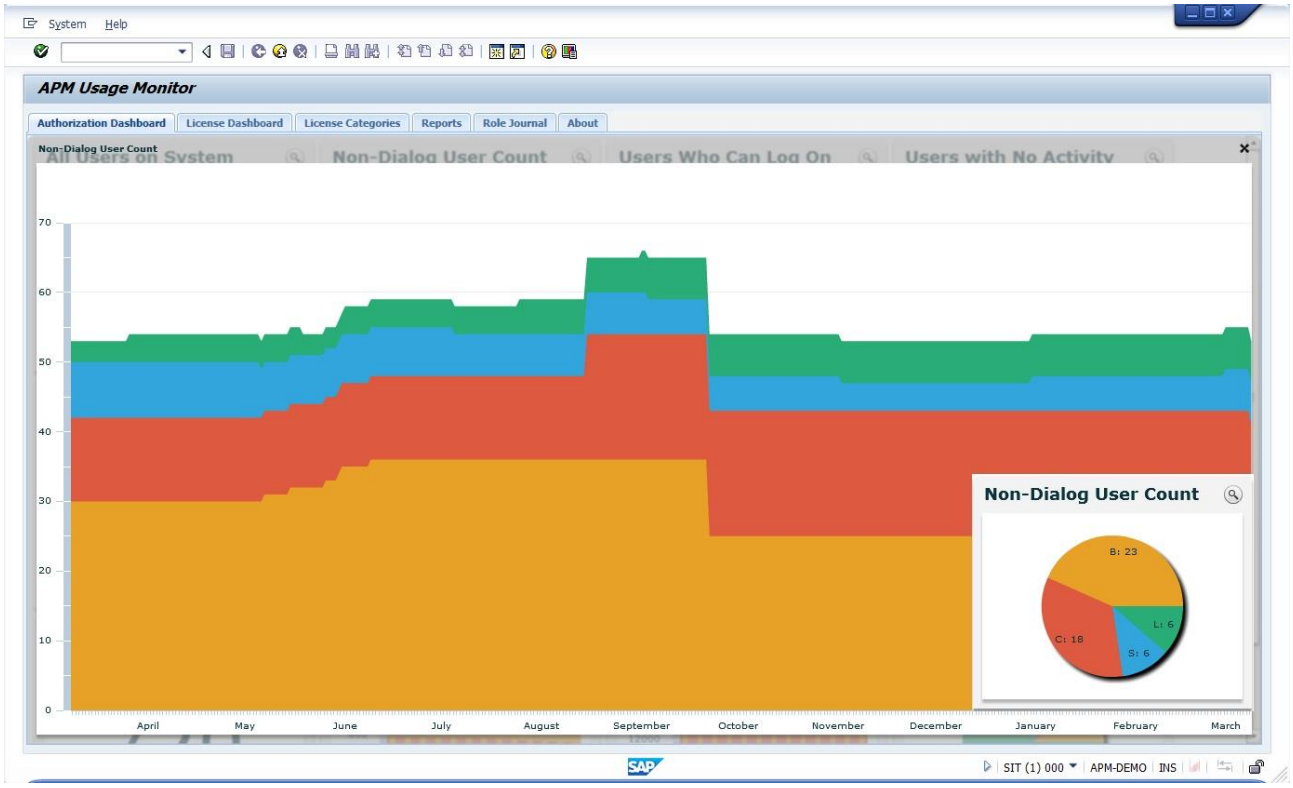
5.1. All Users on systems

Dashboard view	Total number of users on the system. The number takes account for locked and not valid users on the system.
Show details	Clicking the icon will shows a historical graph of the total number of users on the system.



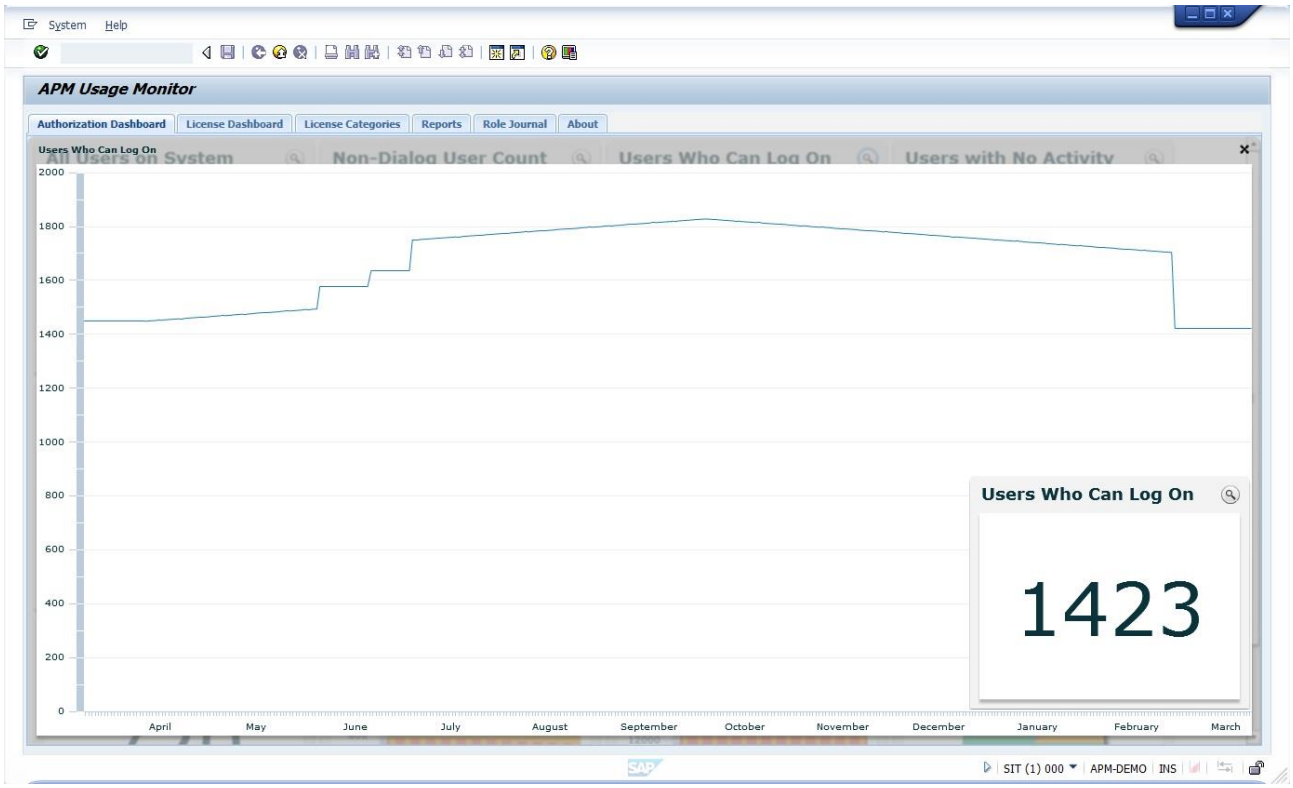
5.2. Non-Dialog User Count

Dashboard view	A pie chart on the total number of non-dialog users. The non-dialog users in APM-UM are system, communication, service and reference users.
Show details	Shows historical graphs on the number of non-dialog users on the system.



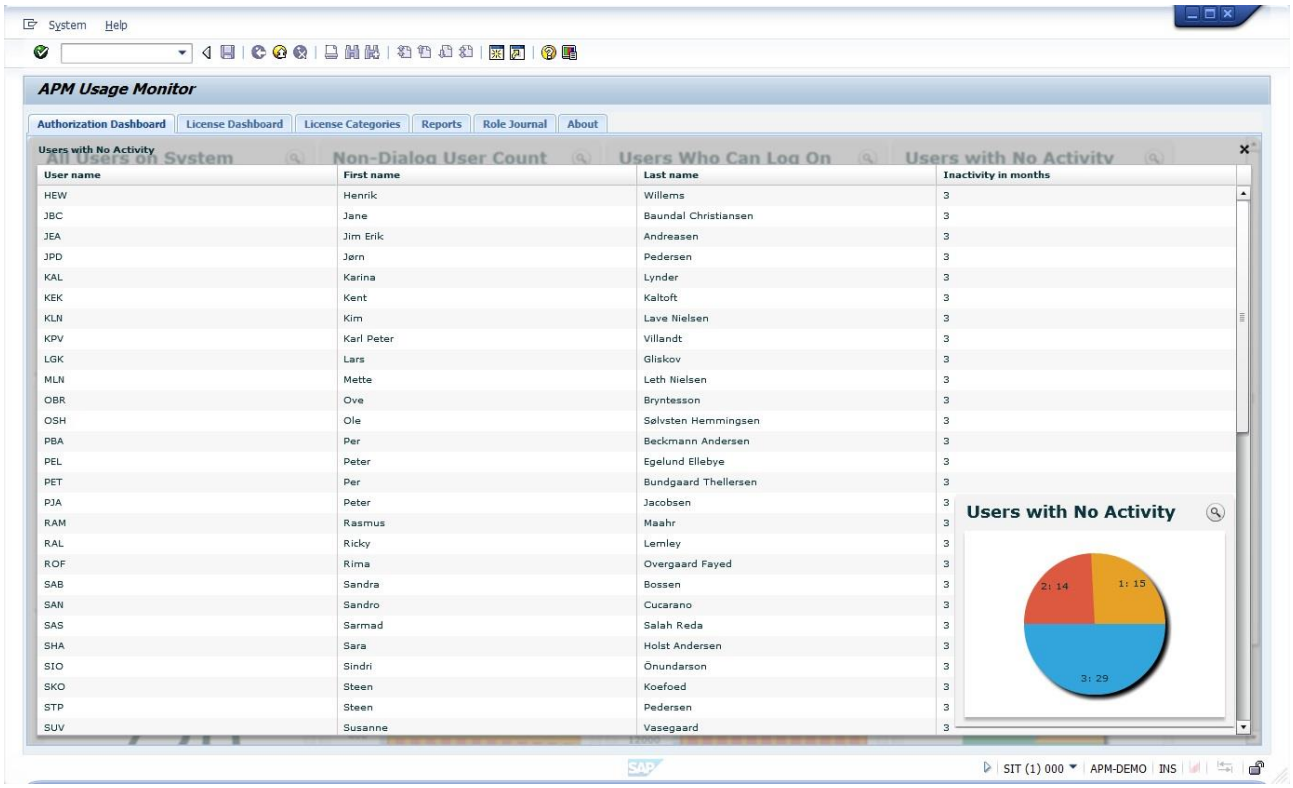
5.3. Users Who Can Log On

Dashboard view	Total number of users on the system that can log on. This means that this number doesn't count the locked users or user that or not valid on the system.
Show details	Shows a historical graph on the number of users who can log on the system.



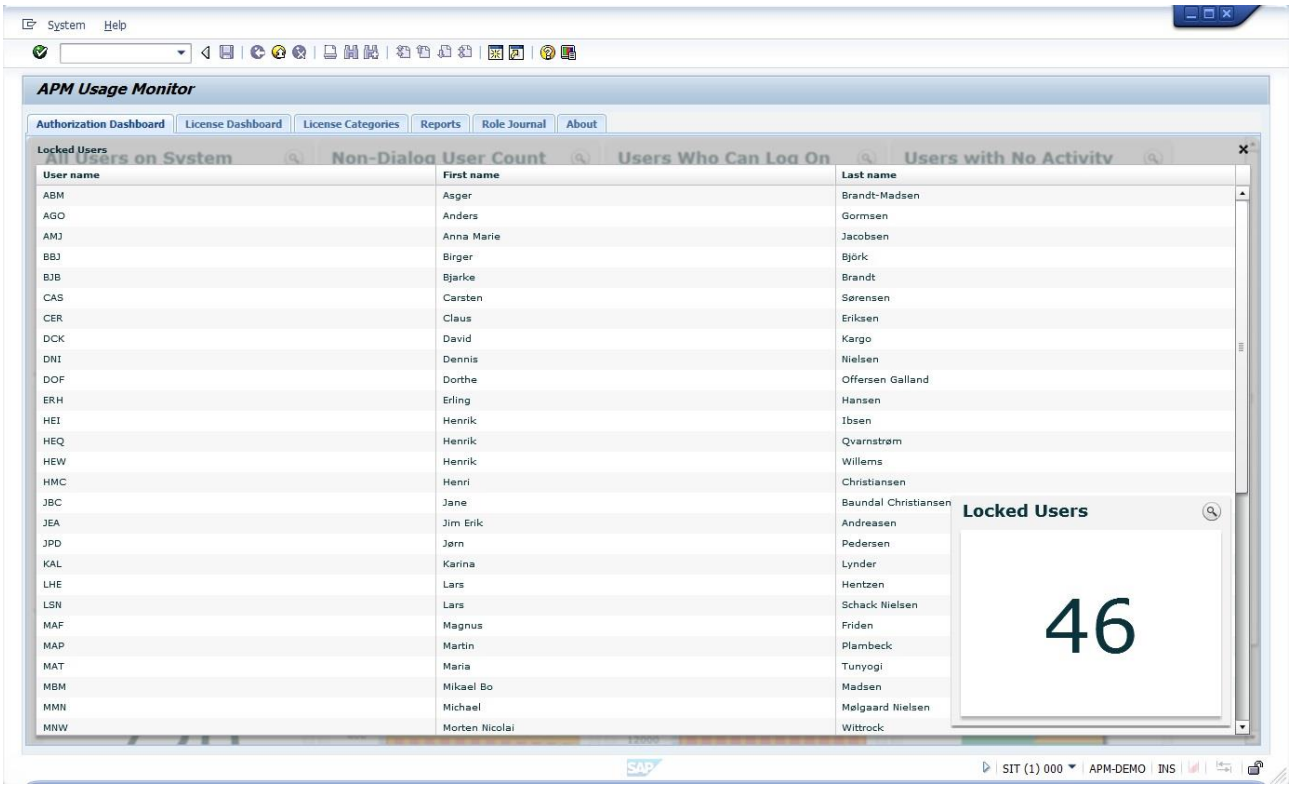
5.4. Users with no activity

Dashboard view	A pie chart with total number of users with no activity in 3 months or more, 2 months, and 1 month.
Show details	Shows a table with user name, first name and last name of a user that has been inactive in 1, 2 and 3 months. The table will only show 100 user names in total. The users with three months inactivity show up first in the table. Go to the reporting module of APM-UM to get a full list of users with no activity.



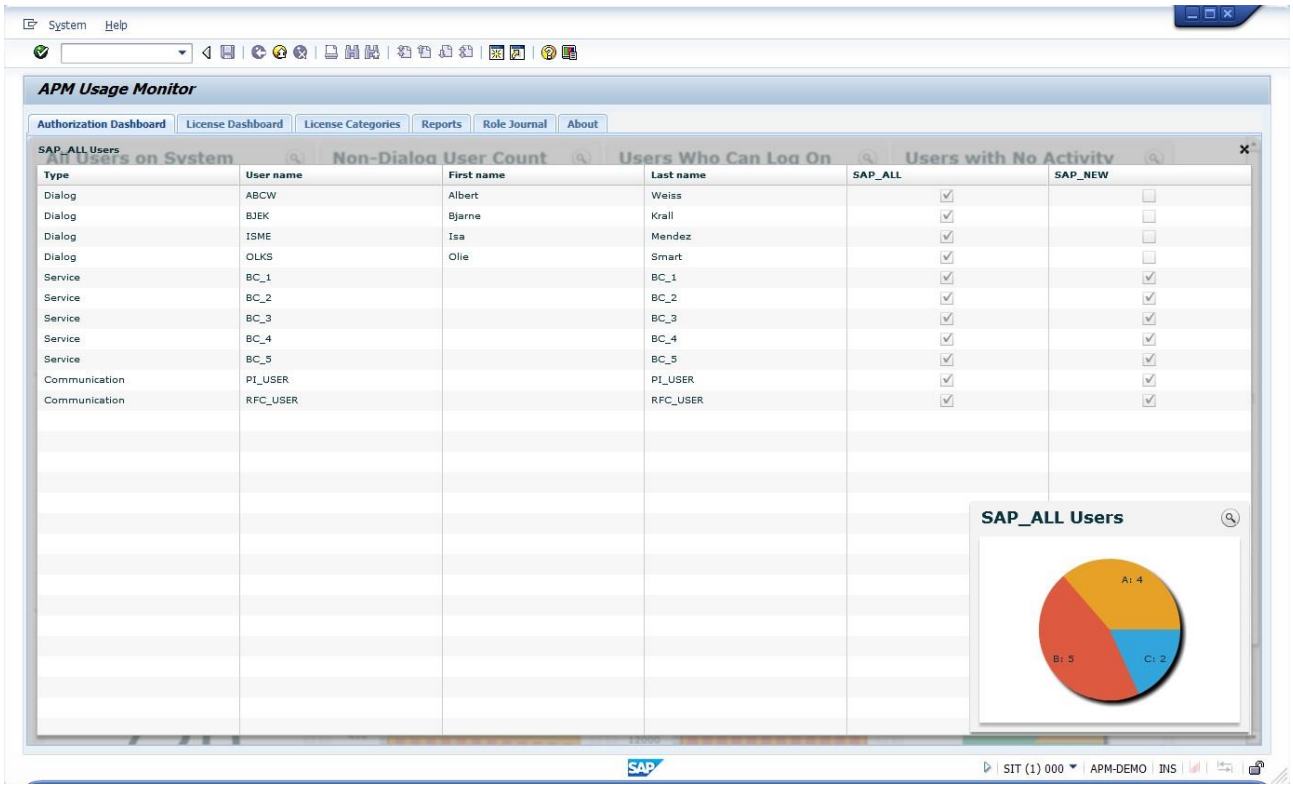
5.5. Locked Users

Dashboard view	The total number of locked users in the system.
Show details	Shows a table with user name, first name and last name of locked users. The table shows only the first 100 users which are locked in the system. Go to the reporting module of APM-UM to get a full list of locked users.



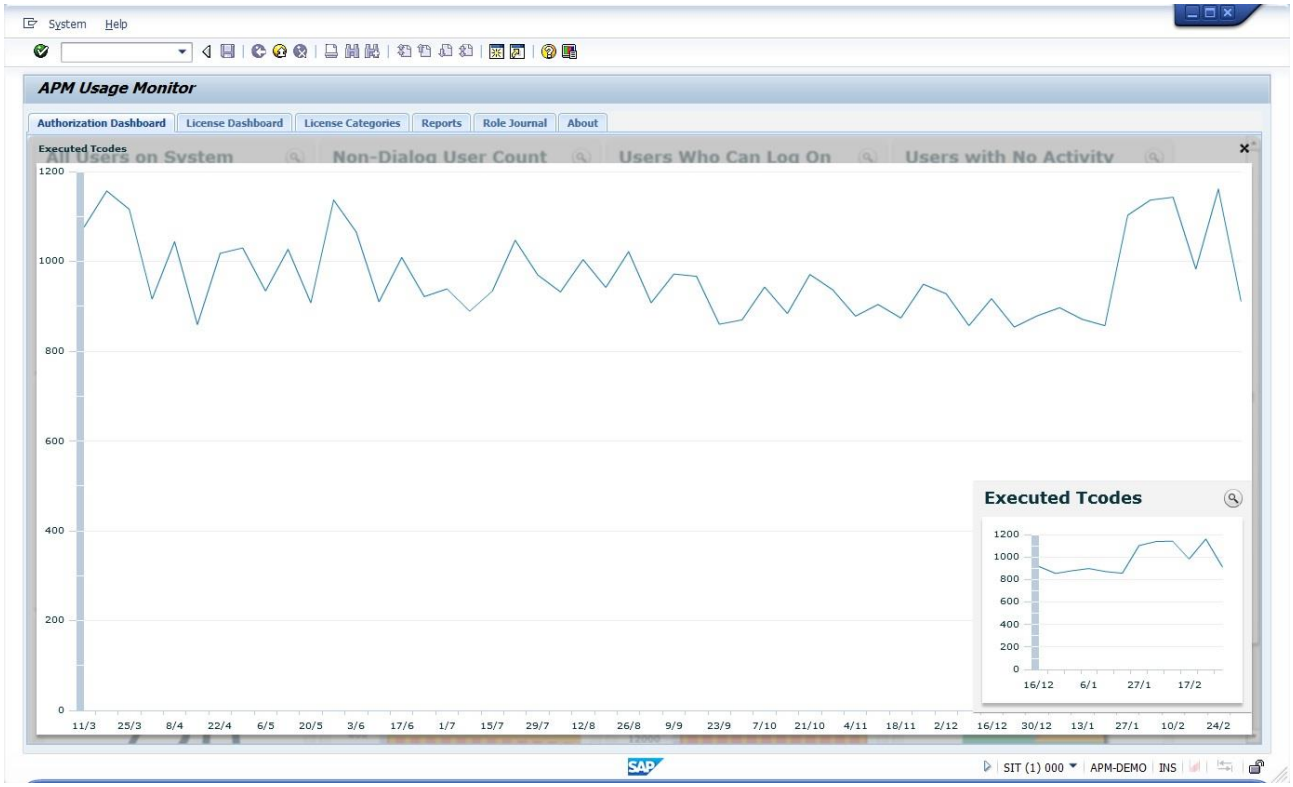
5.6. SAP_ALL users

Dashboard view	The total number of users with a SAP_ALL and/or SAP_NEW profile assignment on the system.
Show details	Shows a table with 100 users (if that many) and whether they are assigned SAP_ALL and/or SAP_NEW. Furthermore, the table shows the user type, which gives the option to decide on whether it is a critical dialog user or a system, service, communication or reference users the profiles are assigned to.



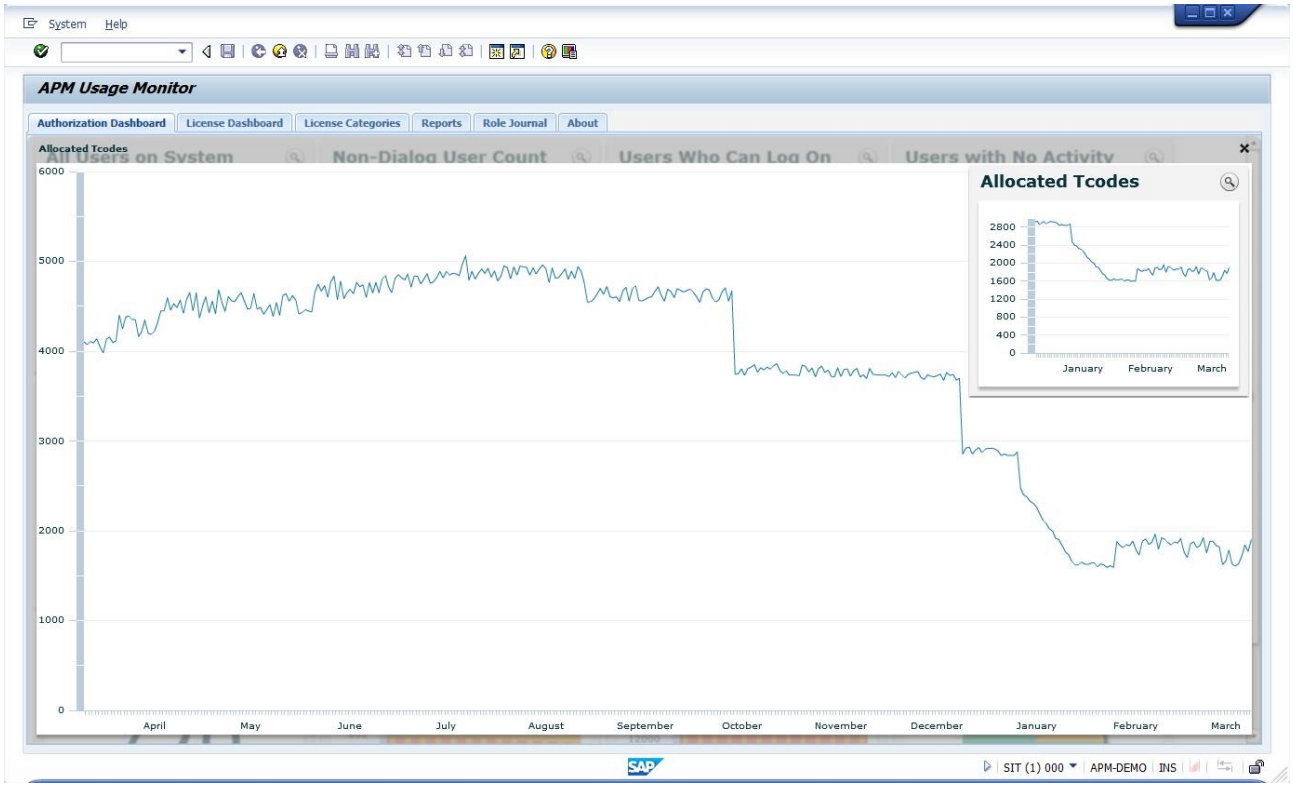
5.7. Executed tcodes

Dashboard view	Shows a historical graph on the number of tcodes executed on the system for the last three months.
Show details	Shows a historical graph on the number of tcodes executed on the system for the last year.



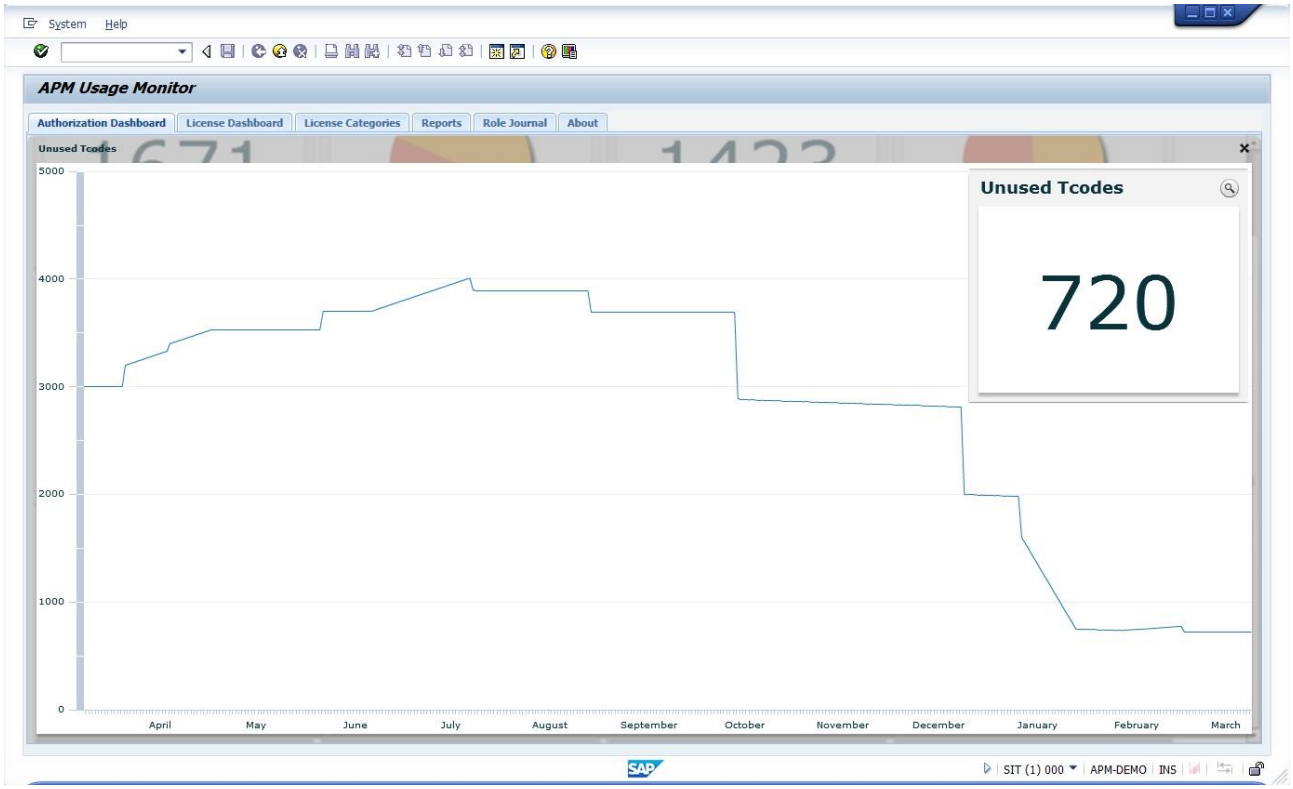
5.8. Allocated tcodes

Dashboard view	The total number of tcodes contained in allocated roles for the last three months. In other words, the dashboard shows the size of the authorization concept in regard to the tcodes contained in roles assigned to the users on the system.
Show details	Shows a graph on historical trend on allocated tcodes for the last year.



5.9. Unused tcodes

Dashboard view	The number of the tcodes (contained in roles allocated users) which have not been executed during the last year.
Show details	Shows a historical graph on the number of unused tcodes allocated in roles on the system. The trend can be displayed for the last year and gives the overview of the authorization concept and to which level the concept can be downsized to.

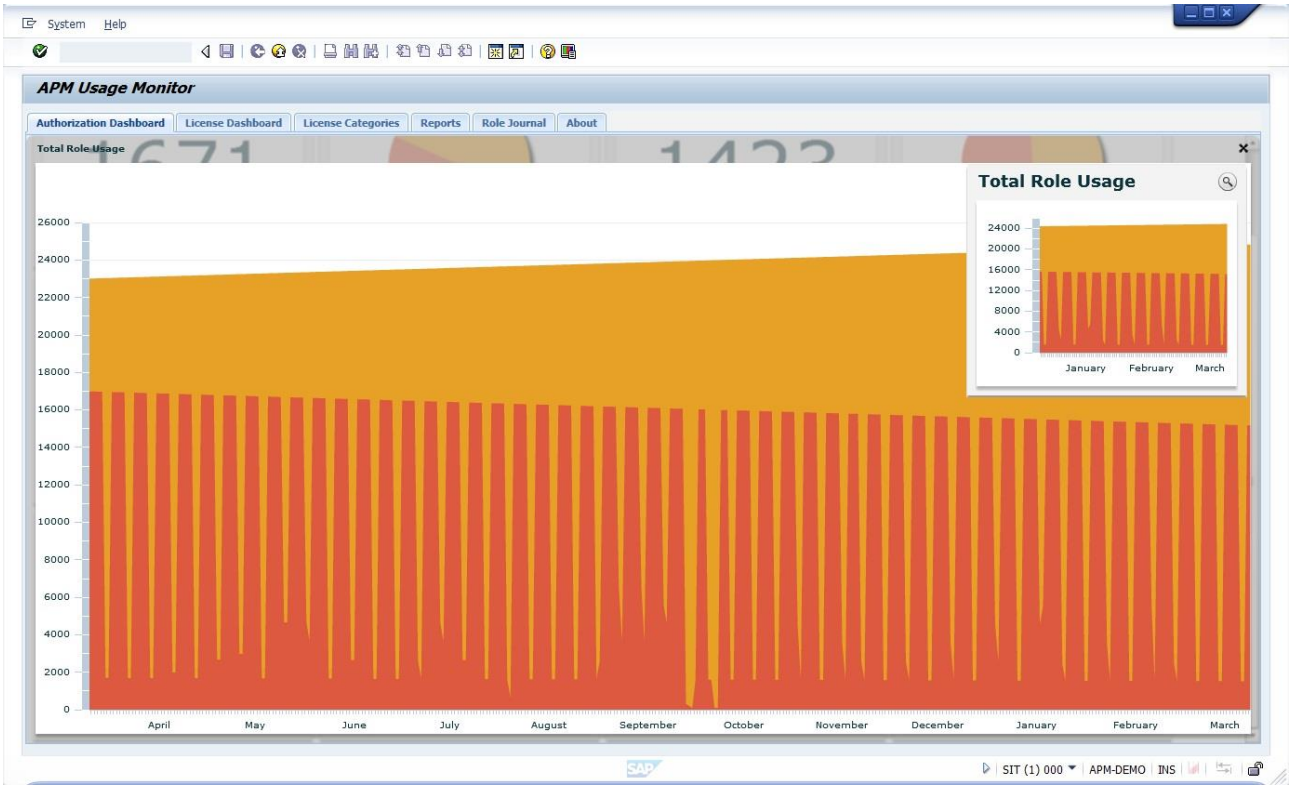


5.10. Unique Role Usage

Dashboard view	Unique number of roles assigned to the users on the system and the unique number of roles that are used by the users on the system for the last three months. In other words, the unique number of roles shows the size of the authorization concept and how many of the roles in the concept are being used.
Show details	Clicking the icon will show the same graph over a longer time period.

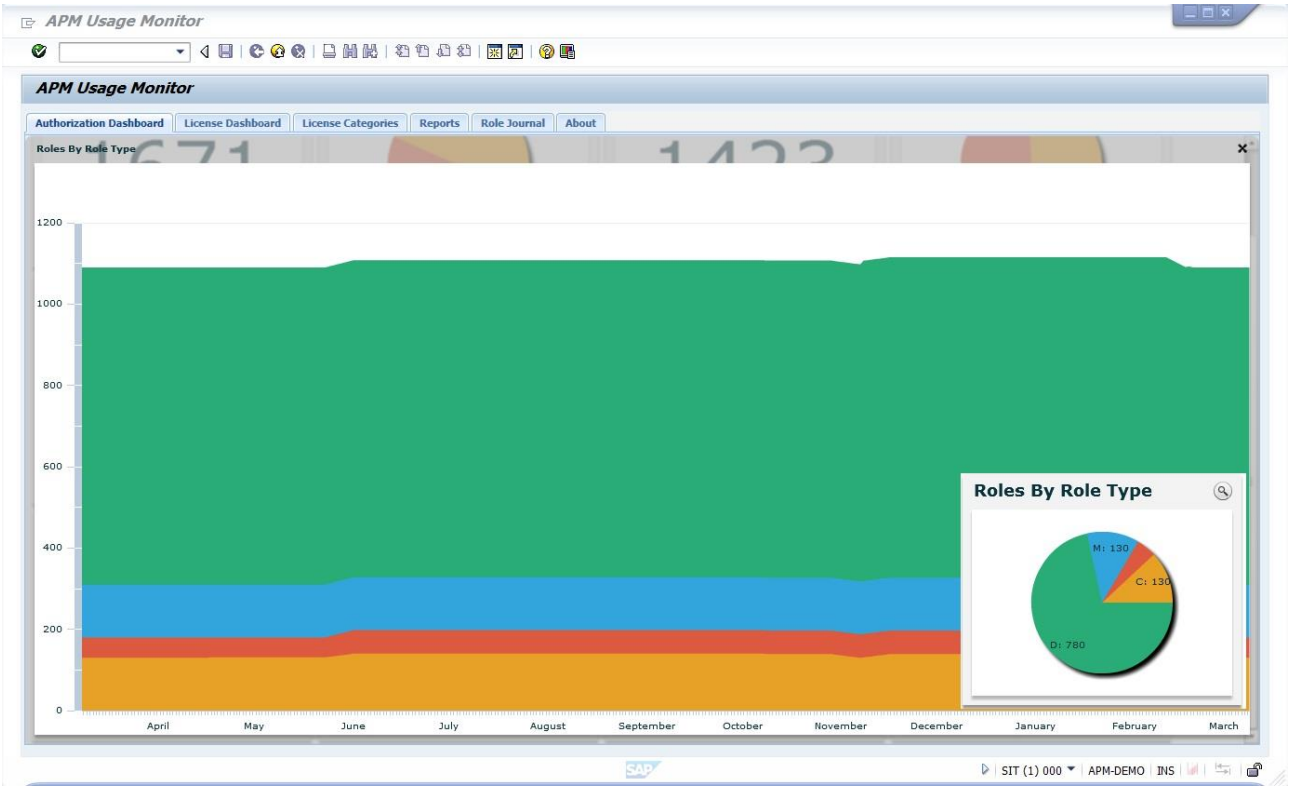
5.11. Total Role Usage

Dashboard view	Total number of roles assigned to users on the system and the number of roles that are used by the users on the system for the last three months.
Show details	Clicking the icon will show the same graph over a longer time period.



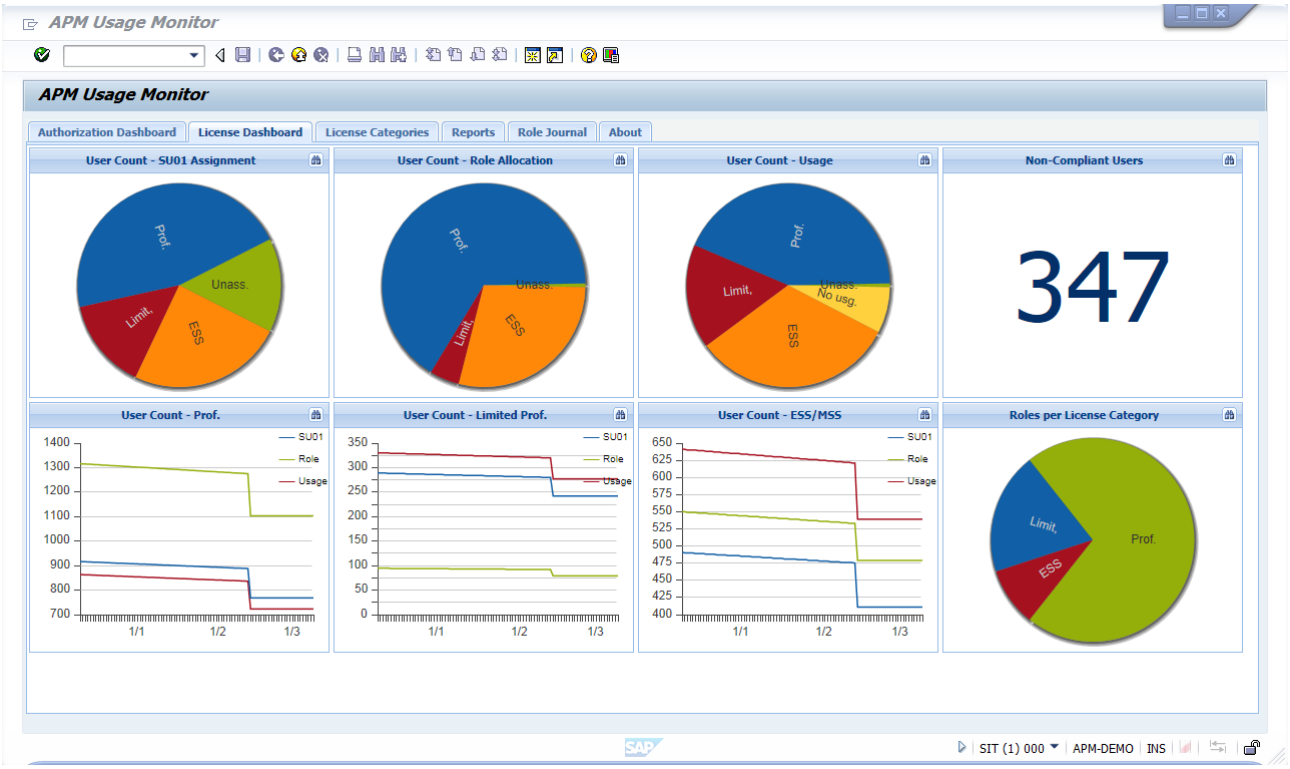
5.12. Roles by Role Type

Dashboard view	A pie chart with the number of unique roles divided into four role types. These are: composite, single, master and derived roles.
Show details	Shows a historical graph of the number of unique roles divided into these four role types.



6. License Dashboard

In the License Dashboard tab the APM-UM delivers a graphical dashboard showing information about the SAP license distributions on the specific system. In these figures and graphs the APM-UM delivers information on possible savings on their SAP licenses and verifying the organisation's license compliance status.

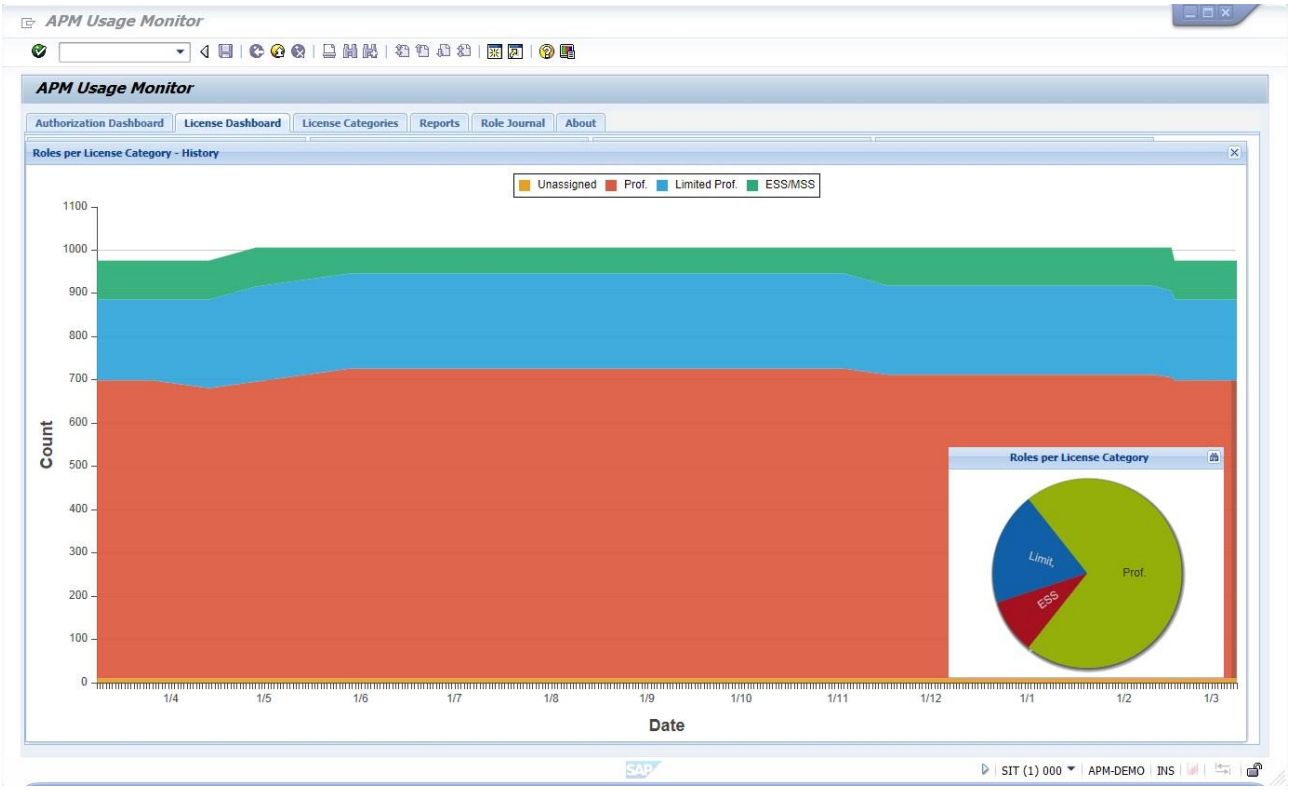


The License dashboard contains the following views

- User Count – SU01 Assignment
- User Count – Role Allocation
- User Count – Usage
- Non-Compliant Users
- User Count – XXX. The X's here are replaced by the actual license categories you have created in the License Categories tab. Each License Category is shown in a separate dashboard view. For example, in our training system we have created three types of licenses: Professional, Limited professional and ESS/MSS license categories. Therefore, the above screenshot shows these three Dashboard view:
- User Count – Professional
- User Count – Limited professional
- User Count – ESS/MSS
- Roles per License Category

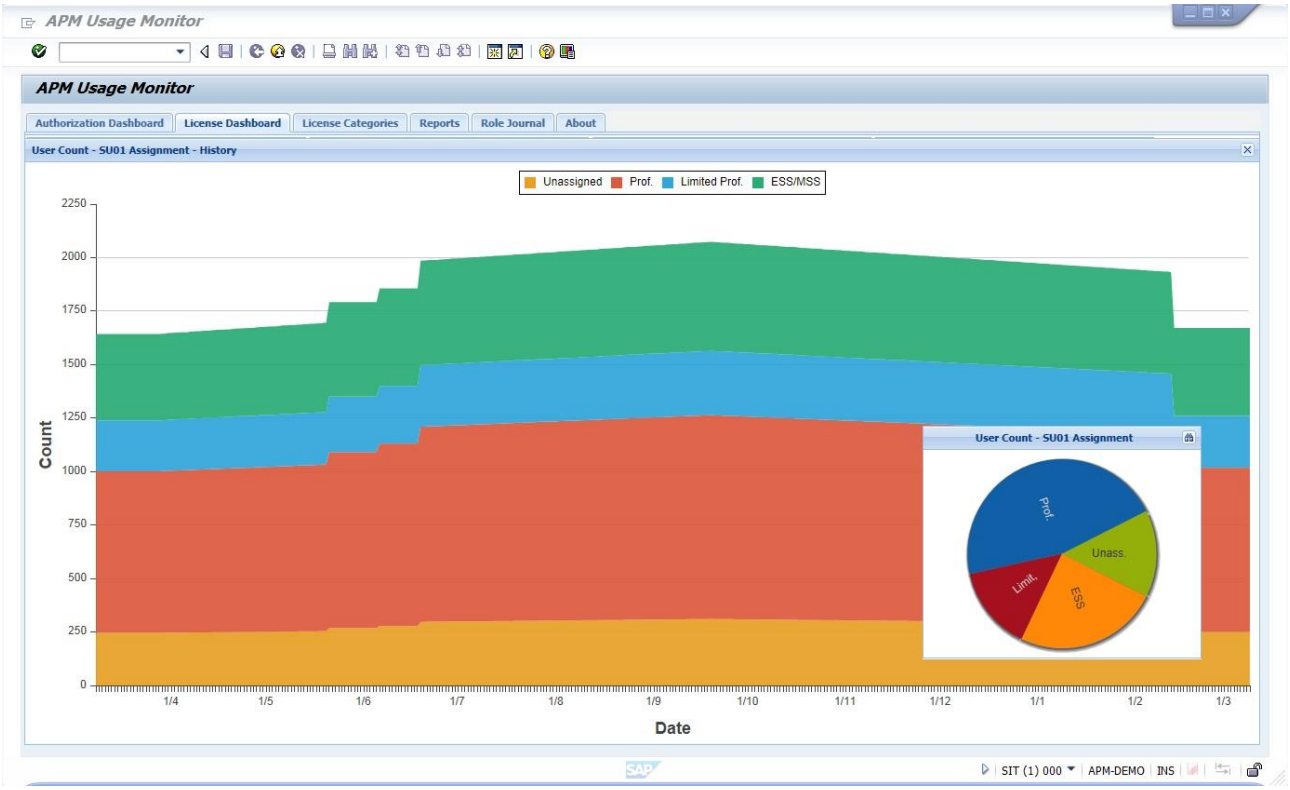
6.1. Roles per License Cat.

Dashboard view	A pie chart with total number of unique roles based on the various license categories created and managed in the APM-UM license category tab. In order to get useful results in this chart, the roles synchronized into APM-UM must be mapped to an APM-UM license category in the "License Categories" tab. The "Unassigned" category in the pie chart counts the number of roles that are not been mapped to an APM-UM license category.
Show details	Shows a historical graph of the number of unique roles divided into the number of license category.



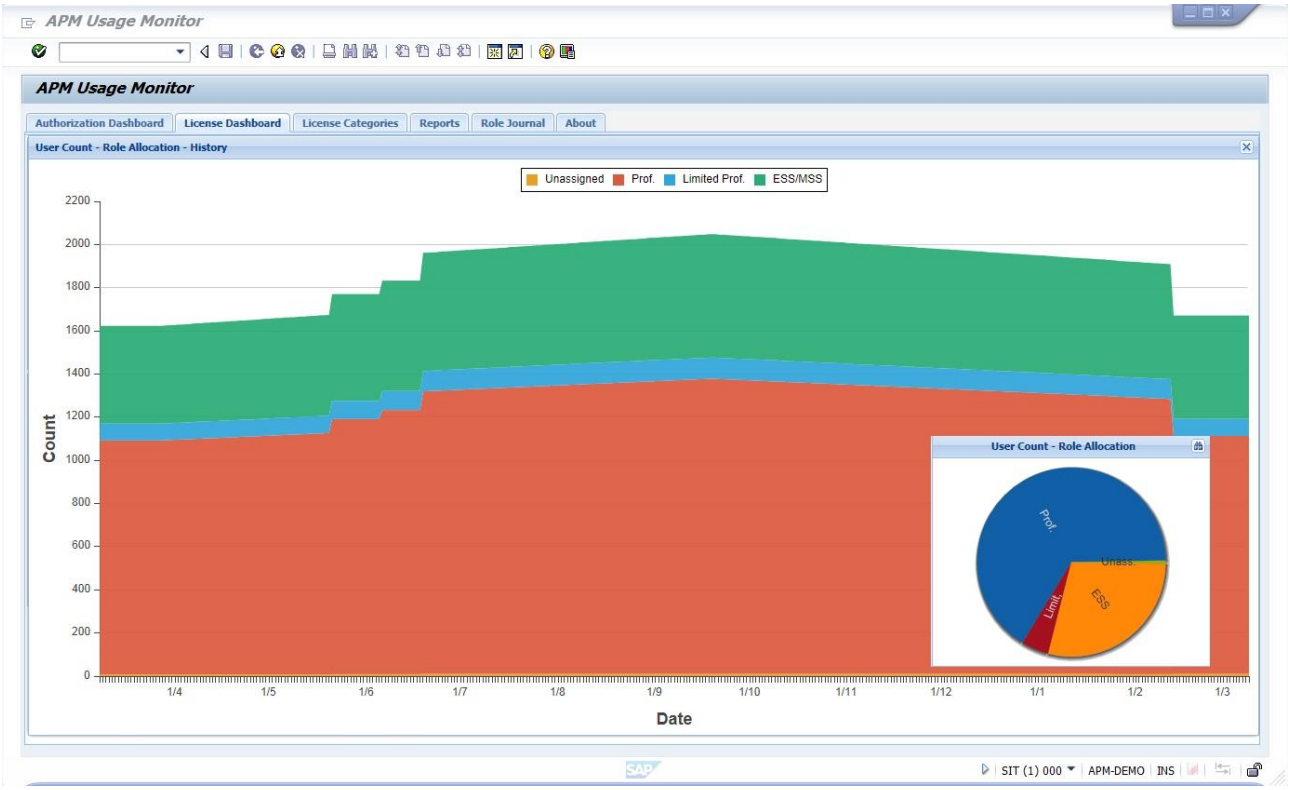
6.2. User Count – SU01 Assignment

Dashboard view	This pie chart shows the number of users in each of the license categories in APM-UM's License Categories tab, based on the users' assignment to SAP license categories in SU01 In order to get useful results in this chart, every SAP license category which is assigned to a user in SU01 must also be mapped to an APM-UM license category in the License Categories tab Users who are not assigned to an SAP license category in SU01 or who are assigned to an SAP license category which has not been mapped to an APM-UM License Category will be included in the "Unassigned" category in this chart
Show details	Shows a historical graph of the number of users in each license category as described above.



6.3. User Count – Role Allocation

Dashboard chart	This pie chart shows the number of users in each of the license categories in APM-UM's License Categories tab, based on the users' role assignments. In order to get useful results in this chart, every role which is assigned to users must be mapped to an APM-UM license category on the License Categories tab. If a user has multiple roles assigned that are mapped to different APM-UM license categories, then the user is counted toward the most expensive of these categories, as defined in the table "Categories" "Cost" field. If a user either has no roles assigned, or only has roles assigned that are not mapped to an APM-UM license category, then the user is counted toward the "Unassigned" category.
Show details	Shows a historical graph of the number of users in each license category as described above.

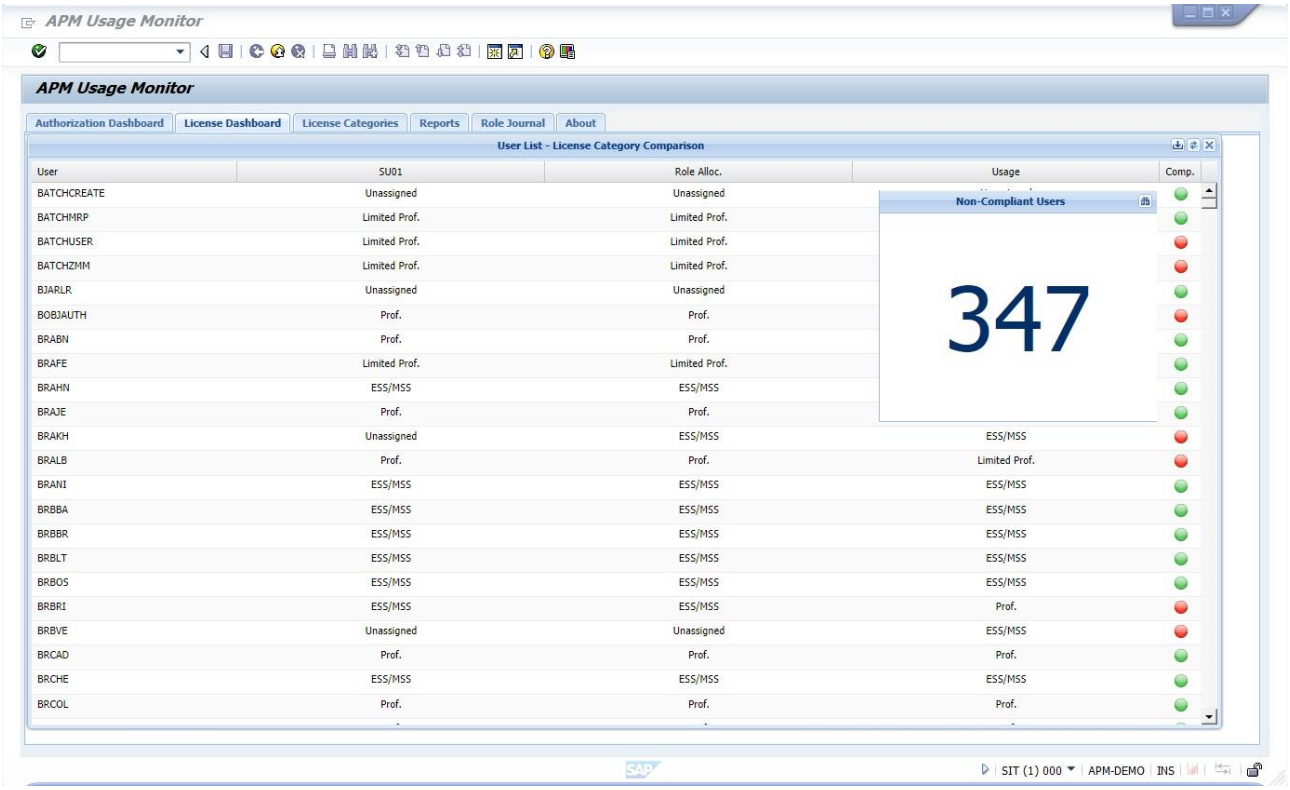


6.4. User Count – Usage

Dashboard chart	This pie chart shows the number of users in each of the license categories in APM-UM's License Categories tab, based on the users' role assignment and actual usage. In order to get useful results in this chart, every role which is assigned to users must be mapped to an APM-UM license category on the License Categories tab. If a user has multiple roles assigned that are mapped to different APM-UM license categories and the user has registered usage in more than one of these roles, then the user is counted toward the most expensive of these categories, as defined in the table "Categories" "Cost" field. The "Unassigned" category in the pie chart counts the number of users that have registered usage only in assigned roles that have not been categorized in APM-UM. The "WebDynpro only" category counts the number of users that have only executed Webdynpro ABAP in the SAP system, i.e. have no registered tcode usage. This would typically be limited to portal users or similar. The "No usage" category counts the number of users for which APM-UM has not registered any usage. The "Usage w/o role" category counts the number of users for which APM-UM has registered some tcode usage, but who have no roles assigned. This would typically count users who only have a profile assigned without a role.
Show details	Shows a historical graph of the number of users in each license category as described above.

6.5. Non-Compliant Users

The pie and the table give an overall insight and a comparison platform to compare and adjust users, if they are assigned to a wrong license category. In other words, this table delivers license compliance information on the user name level and organizations can potentially adjust the users by going through this table. If there is an alignment between the users SU01, role allocation license categorization and users role usage, the users will be highlighted with a green circle. On the other hand, if there is a mismatch between the three ways of counting, the users will be indicated with a red circle.
In order to get useful results in this chart, every SAP license category which is assigned to a user in SU01 must also be mapped to a UM license category on UM's License Categories tab, and every role which is assigned to users must be mapped to a UM license category on UM's License Categories tab. Users are mapped to license categories in the same way as for the User Count charts.



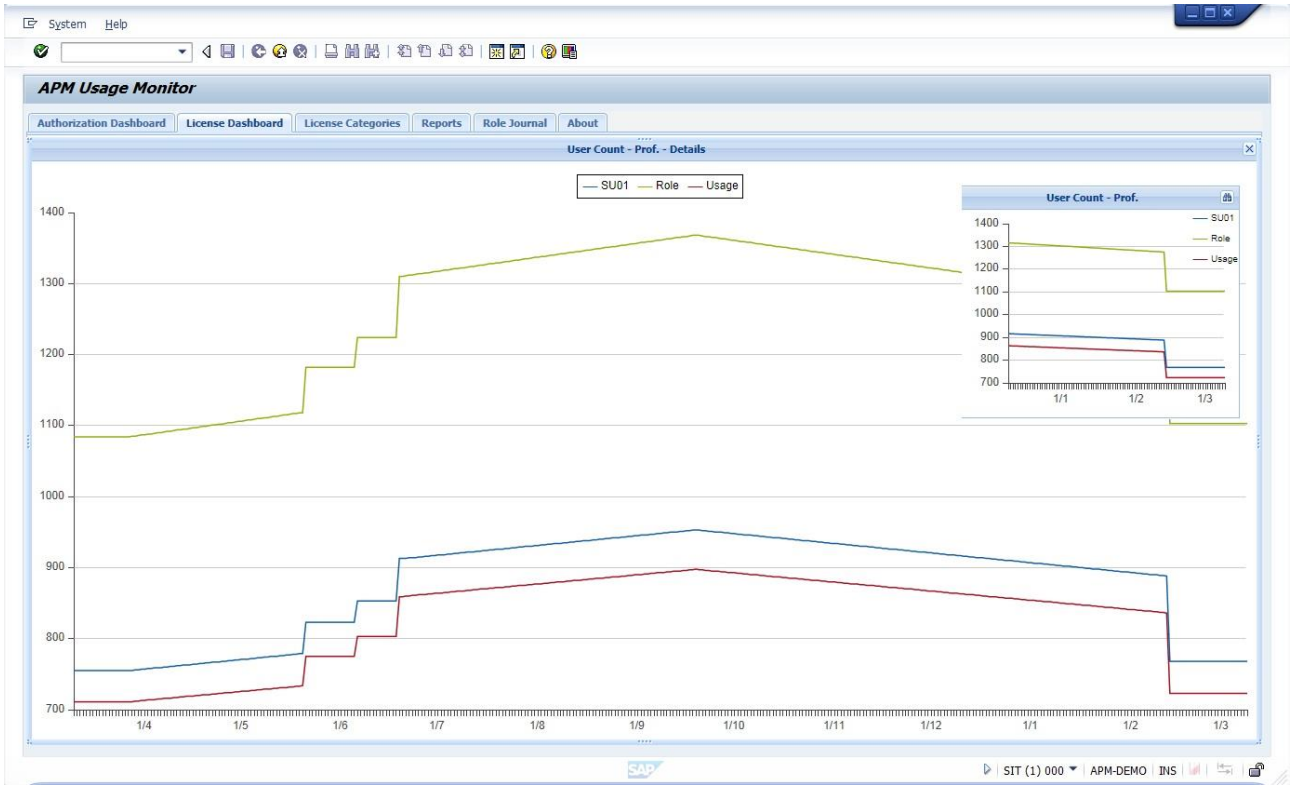
The next three dashboard views depend on how many license categories will be created in the License categories tab. In Applicon Solutions training system we have created three different license categories:

Professional
Limited professional
ESS/MSS

Therefore in our dashboard the APM-UM beside the default views will also automatically create three dashboard views, which are the following:

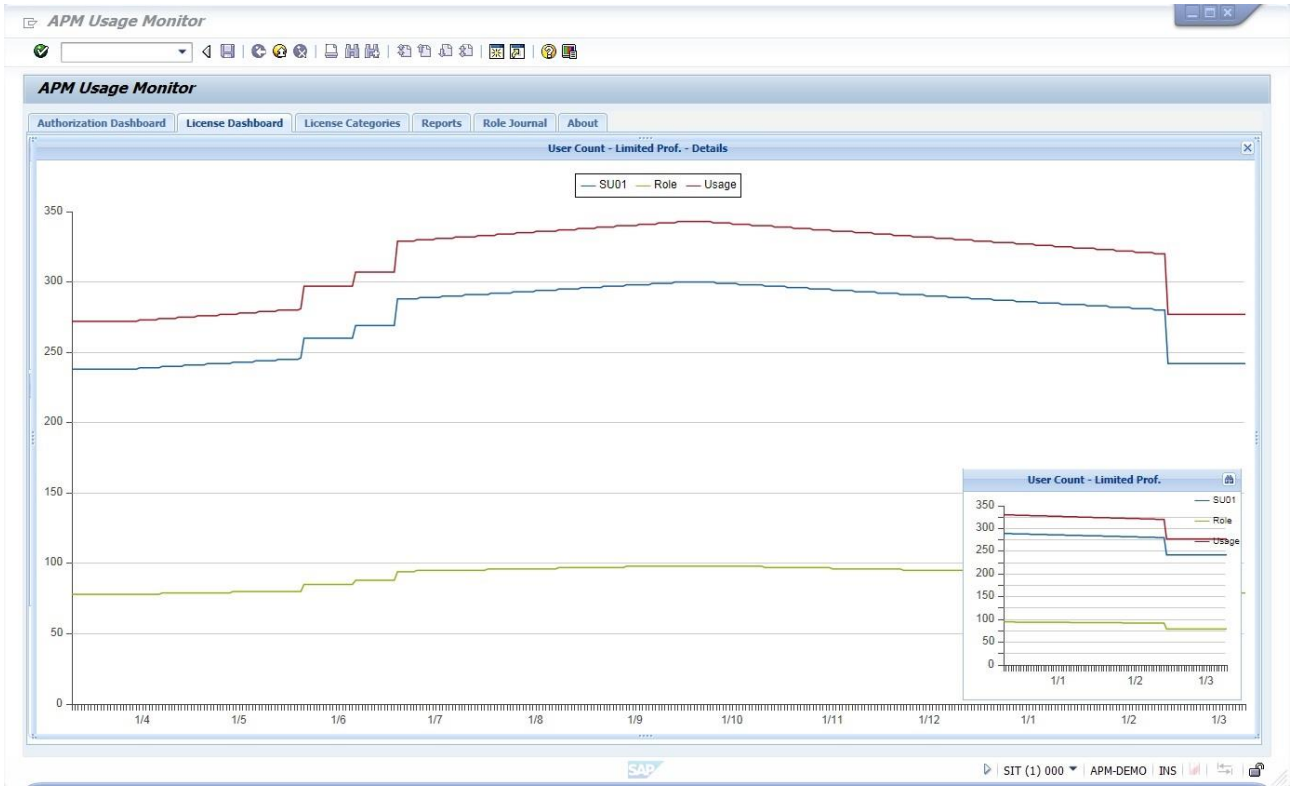
6.6. User Count – Professional

Dashboard table	Shows historical graphs on the number of users in the professional license category based on the users SU01 license assignment, role allocation and the usage of the roles on the system for the last three months.
Show details	Shows historical graphs on the number of users in the professional license category based on the three different APM-UM license approaches for the last twelve months. The efficient line on this graph is where all of the curves are on the same line.



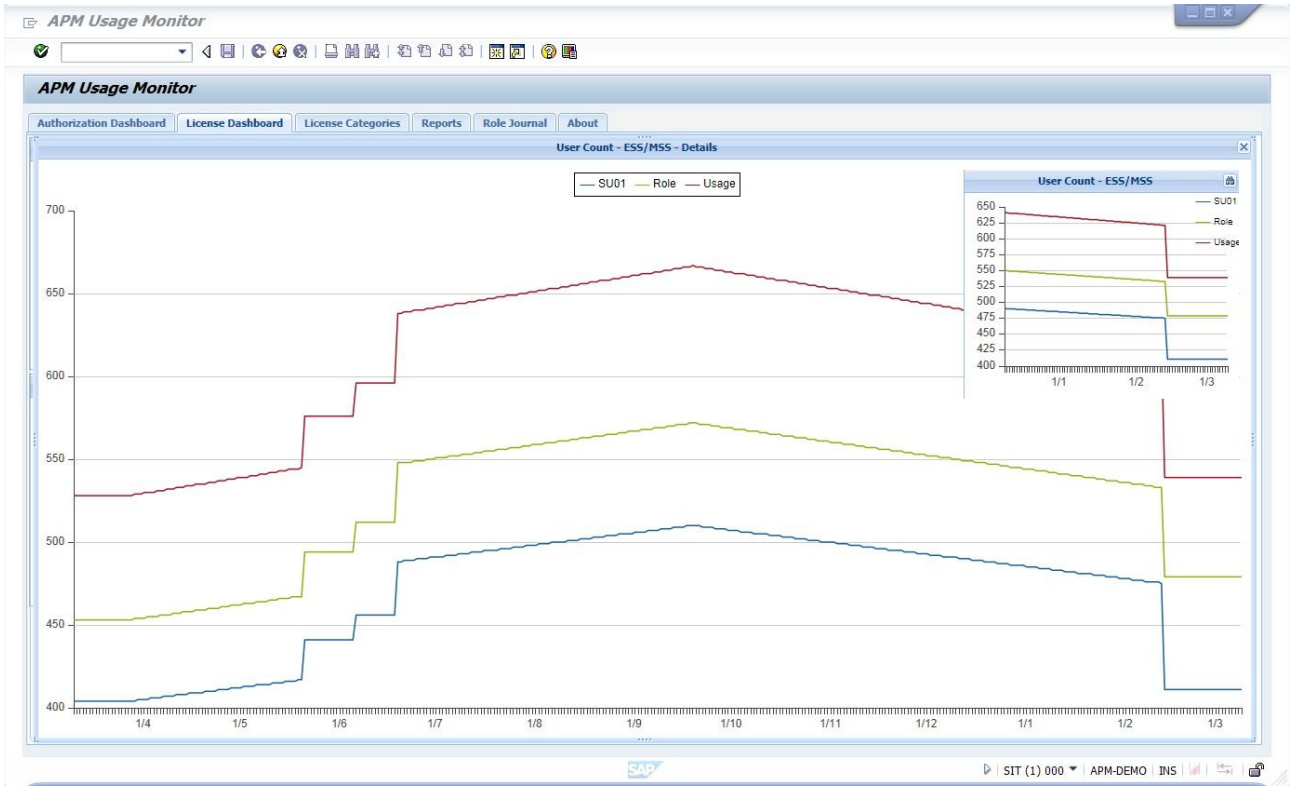
6.7. User Count – Limited Professional

Dashboard table	Shows historical graphs on the number of users in the Limited professional license category based on the users SU01 license assignment, role allocation and the usage of the roles on the system for the last three months.
Show details	Shows historical graphs on the number of users in the Limited professional license category based on the three different APM-UM license approaches for the last twelve months. The efficient line on this graph is where all of the curves are on the same line.



6.8. User Count – ESS/MSS

Dashboard table	Shows historical graphs on the number of users in the ESS/MSS license category based on the users SU01 license assignment, role allocation and the usage of the roles on the system for the last three months.
Show details	Shows historical graphs on the number of users in the ESS/MSS based on the three different APM-UM license approaches for the last twelve months. The efficient line on this graph is where all of the curves are on the same line.



7. License Categories

The License Categories tab is divided into three sections. In the upper left side of the License Categories screen, the various license categories are created and maintained in the table "Categories". The lower left side the roles in the various licenses are viewed in the table"Assigned Roles – XXX". The X's here depends on the number of license categories that are created in this tab. The roles that are synchronized into APM-UM are displayed in table "Role Finder" on the right hand side of the screen.

The Categories table contains the following functionality

Add:	Click the Add button to create a new license category
Remove:	To remove a license category click on Remove button. To remove a license category from the table, the category should be empty, that is the roles already assigned to the category should be removed.

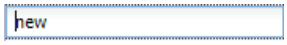
The Categories table contains the following columns

Category:	The name of the SAP license category as maintained and used in APM-UM
Cost:	The price agreed on with SAP of the specific license category The prices are normally specified in the SAP contract agreemnet
Dashboard:	From the drop down list, you can decide on which license category that should be showed in the license dashboards various figures
Abbr.:	Can use the abbreviations for the license categories in the license dashboard
SU01 License:	The drop down list shows the license type from SAP price list, that are configured in table TUTYP in your SAP system

Click on the

button to create a new category. This new row will appear

Category	Cost	Dashboard	Abbr.	SU01 License
new	0	Hide		

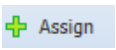
A new license category can be added to the Category row by double clicking the 

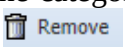
cell and inserting a new license category name. The APM-UM pre-defined category is the following

Unassigned:	The roles that are not assigned to a category appear here

In the "Cost" column, the license price of the specific category can be added. The cost in APM-UM is used to decide for the users' highest license category.

In the "SU01 License" column, each SAP license category which is assigned to a user in SU01 can be mapped to an APM-UM license category by the drop down list.

When a category is created the roles are assigned to a license category by highlighting the license category, highlighting the role/roles and clicking on the 

button in the Role Finder table. A single role is highlighted by clicking on the role name. For highlighting multiple roles click on the shift key and the up or down arrow keys on your keyboard.
To delete a license category, it is required that the category doesn't contain any roles. To delete a category, highlight the category and click on the 

button.

The Roles assigned to a license category are shown as a list in the table "Assigned Roles".

The "Assigned Roles" table contains the following functionality

Unassign:	The button unassign is used when roles are decided to be removed from a specific category.
Search:	Search for a role/roles by entering a character in the search field and click on
Number of roles:	Number of roles in a specific category

The "Assigned Roles" table contains the following columns

Role:	The name of the roles that are contained in the highlighted license category
Description:	The description of the roles that are contained in the highlighted license category

Parent:	This column shows the parent role of a derived role

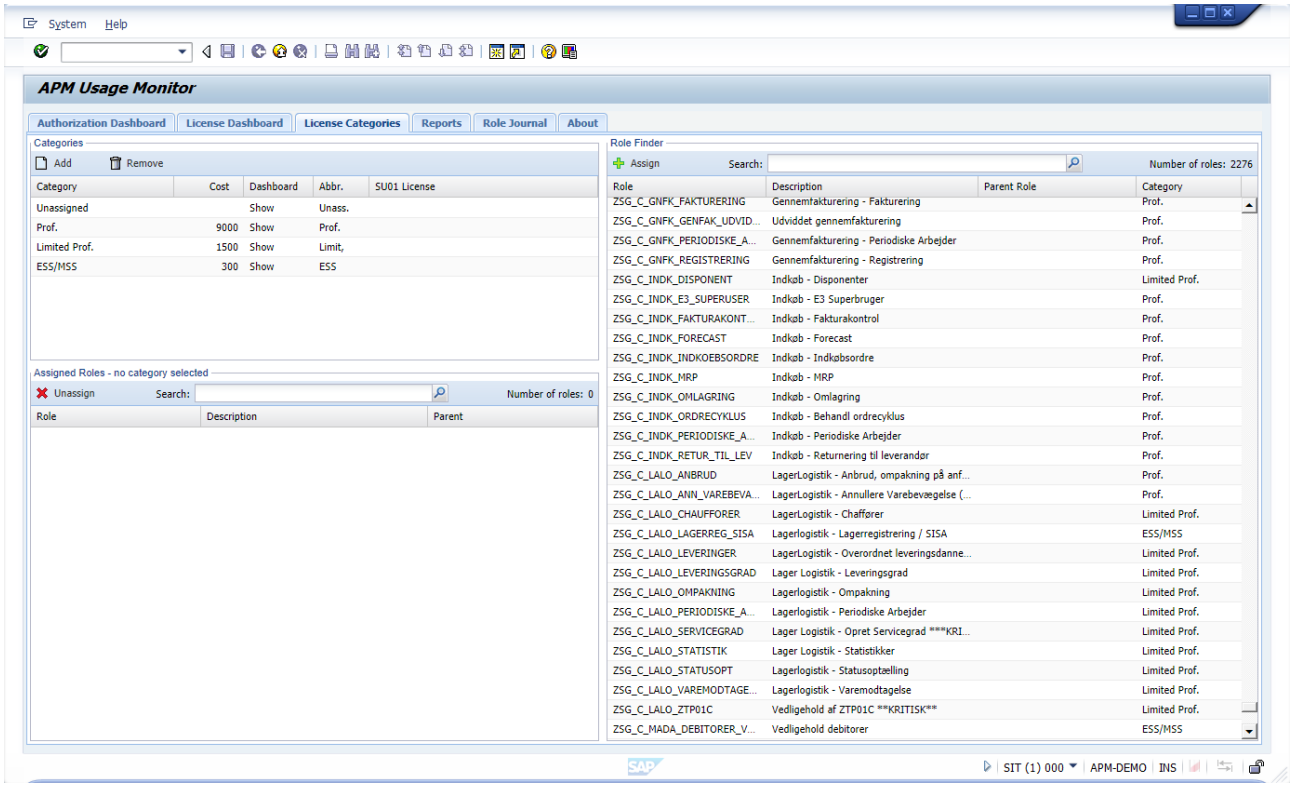
The roles assigned to a user and synchronized into APM-UM will be displayed in the “Role Finder” table.

The “Role Finder” table contains the following functionality.

Assign	The button “Assign” is used when roles highlighted in the table and are decided to be a specific license category in UM
Search:	Search for a role/roles by entering a character in the cell and click on
Number of roles:	Number of roles in a specific category

The “Role Finder” table contains the following columns.

Role:	The name of the roles that are contained in the highlighted license category
Description:	The description of the roles that are contained in the highlighted license category
Parent:	This column shows the parent role of a derived role in column “Role”
Category:	The name of the license category created in APM-UM and assigned to the specific role


System Help
APM Usage Monitor
Authorization Dashboard
License Dashboard
License Categories
Reports
Role Journal
About
Categories
Add
Remove
Category Cost Dashboard Abbr. SU01 License
Unassigned Show Unass.
Prof. 9000 Show Prof.
Limited Prof. 1500 Show Limit,
ESS/MSS 300 Show ESS
Assigned Roles - no category selected
Unassign
Search:
Number of roles: 0
Role Description Parent
Role Finder
Assign
Search:
Number of roles: 2276
Role Description Parent Role Category
ZSG_C_GNFK_FAKTURERING Gennemfakturering - Fakturering Prof.
ZSG_C_GNFK_GENFAK_UDVID... Udviddet gennemfakturering Prof.
ZSG_C_GNFK_PERIODISKE_A... Gennemfakturering - Periodiske Arbejder Prof.
ZSG_C_GNFK_REGISTRERING Gennemfakturering - Registrering Prof.
ZSG_C_INDK_DISPONENT Indkøb - Disponenter Limited Prof.
ZSG_C_INDK_E3_SUPERUSER Indkøb - E3 Superbruger Prof.
ZSG_C_INDK_FAKTURAKONT... Indkøb - Fakturakontrol Prof.
ZSG_C_INDK_FORECAST Indkøb - Forecast Prof.
ZSG_C_INDK_INDKOEBSORDRE Indkøb - Indkøbsordre Prof.
ZSG_C_INDK_MRP Indkøb - MRP Prof.
ZSG_C_INDK_OMLAGRING Indkøb - Omlagring Prof.
ZSG_C_INDK_ORDRECYKLUS Indkøb - Behandl ordrecyklus Prof.
ZSG_C_INDK_PERIODISKE_A... Indkøb - Periodiske Arbejder Prof.
ZSG_C_INDK_RETUR_TIL_LEV Indkøb - Returnering til leverandør Prof.
ZSG_C_LALO_ANBRUD LagerLogistik - Anbrud, ompakning på anf... Prof.
ZSG_C_LALO_ANN_VAREBEVA... LagerLogistik - Annullere Varebevægelse (... Prof.
ZSG_C_LALO_CHAUFFORER LagerLogistik - Chaffører Limited Prof.
ZSG_C_LALO_LAGERREG_SISA Lagerlogistik - Lagerregistrering / SISA ESS/MSS
ZSG_C_LALO_LEVERINGER LagerLogistik - Overordnet leveringsdanne... Limited Prof.
ZSG_C_LALO_LEVERINGSGRAD Lager Logistik - Leveringsgrad Limited Prof.
ZSG_C_LALO_OMPAKNING Lagerlogistik - Ompakning Limited Prof.
ZSG_C_LALO_PERIODISKE_A... Lagerlogistik - Periodiske Arbejder Limited Prof.
ZSG_C_LALO_SERVICEGRAD Lager Logistik - Opret Servicegrad ***KRI... Limited Prof.
ZSG_C_LALO_STATISTIK Lager Logistik - Statistikker Limited Prof.
ZSG_C_LALO_STATUSOPT Lagerlogistik - Statusoptælling Limited Prof.
ZSG_C_LALO_VAREMODTAGE... Lagerlogistik - Varemodtagelse Limited Prof.
ZSG_C_LALO_ZTP01C Vedligehold af ZTP01C **KRITISK** Limited Prof.
ZSG_C_MADA_DEBITORER_V... Vedligehold debitorer ESS/MSS
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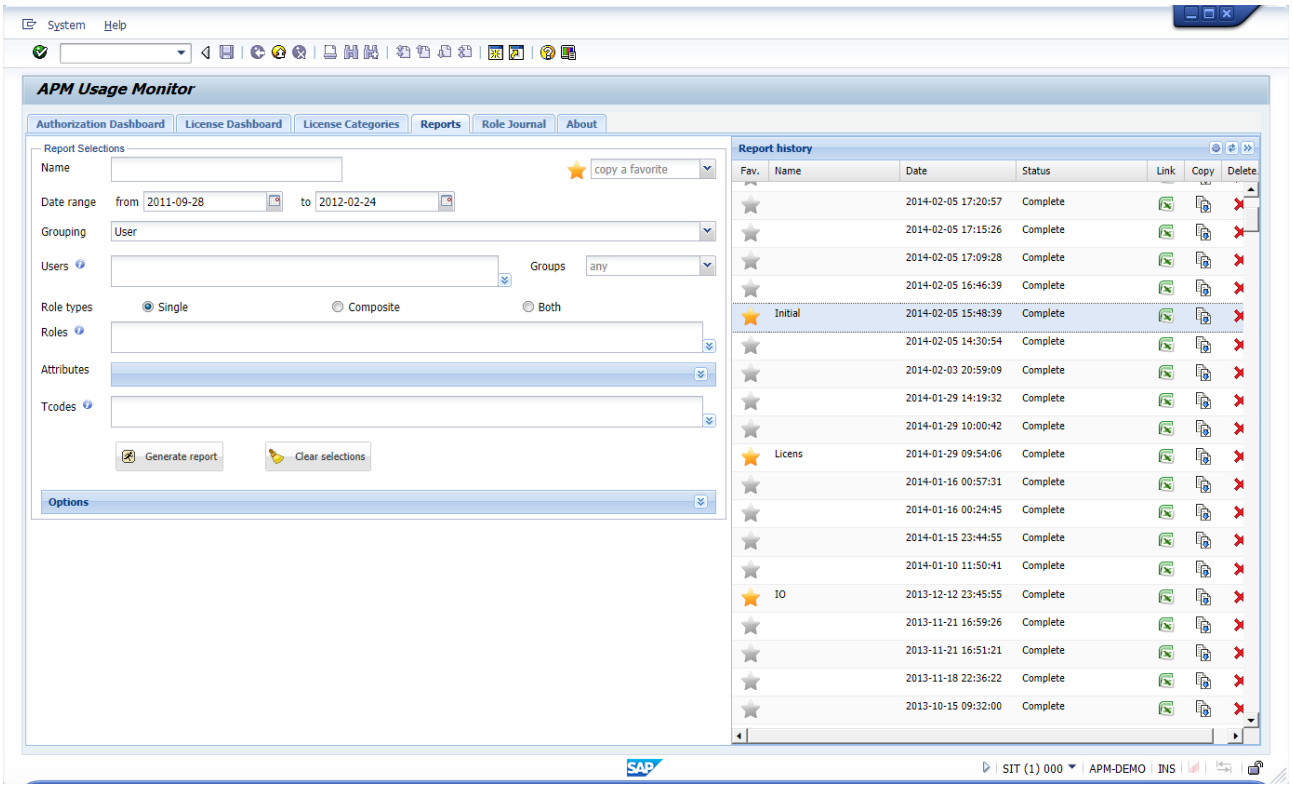
8. Reporting

Different reports are available in order to make use of the data generated in the APM-UM. By choosing the Reporting tab, you can either create new APM-UM reports or download existing reports. The reporting screen is divided into two parts. In the Report selections part, you choose the data you want to create your report on. In the Report history part, the generated reports are listed.



The Report selections part contains the following:

- General selection
- User, role or Tcode selection
- Groups
- Attributes
- Options

In the following, the different selections' options will be described.

General selection

General selection gives the following selection options:

Name: Add a name to your reports

Date: The start date when the report should start from. The default start

	date is the first date APM-UM collected data from the SAP system
To:	The end date when the report should run to
Group:	Choose grouping from the drop down list • None • User • Tcode • Both user and tcode When choosing to group on User or Tcode your excel report will have a summarizing column on users or Tcode. i.e. when grouping on tcode, instead of having the name of the tcodes contained in the roles, the number of total tcodes contained in a specific role will show up in the report

User, Role and Tcode selection

There are different selection options for selecting on User, Role and Tcode.

1. SearchingSelect by selecting the rows
2. Type a name. A * here, means all
3. Pasting from the clipboard

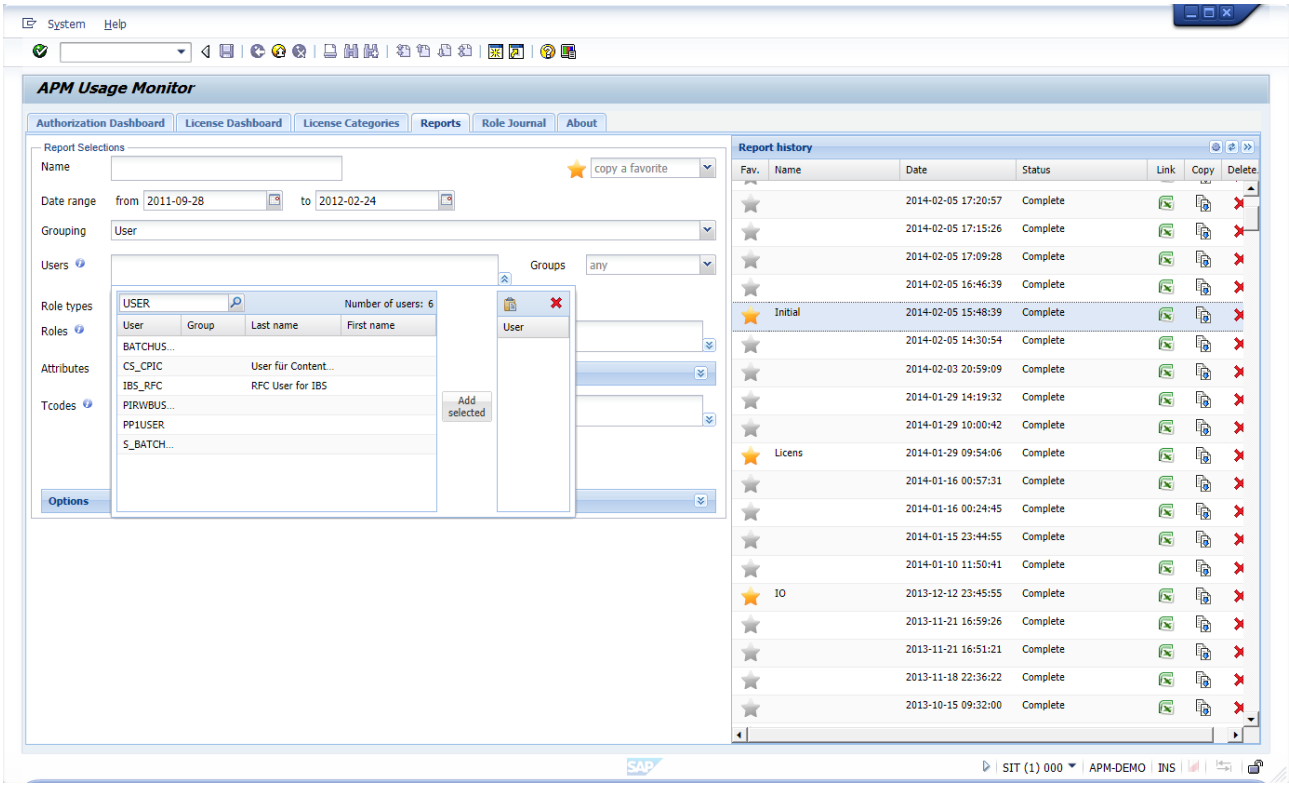
Please note: These selections options are the same for selecting on User and Tcode. For role selection there is an option to choose between reporting solely on composite or single roles or both composite and single roles.

In the following, the four different selection options for user selection will be described.

Searching

For searchingfor users, tcodes or Roles click on the button to reveal the selection table. In case of searching for users open the search selector by clicking on and enter the search value in the cell

and click on the magnifying glass icon.



Please note: The APM-UM search function searches in all the columns that are displayed in the selection table. E.g. searching for a specific value in the Users selection will show all the matched result in columns User, Group, Last name and First name.

The users can be added to the selection criteria by highlighting the users and clicking on Add selected. The selected users, roles and tcodes can be removed by highlighting the selected users and clicking on Clear selections.

Please note: When creating a new report, it is necessary to ensure that the old selections are removed from the selected tables in the different selection options. To ensure that all of the previous selections are cleared, click on Clear selections

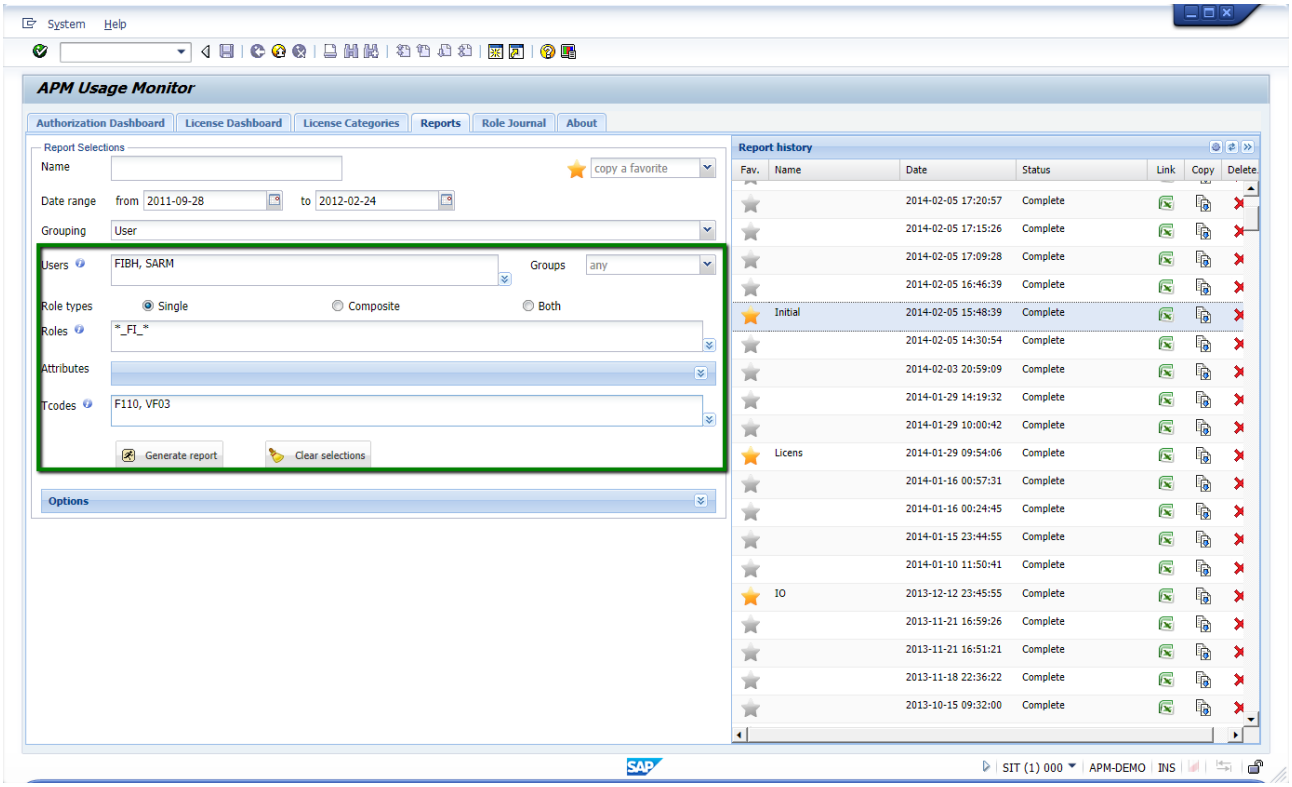
Select by selecting the rows

All of the users, roles and tcodes that are synchronized on APM-UM will be available on the search table. These users can be added as a selection criteria by highlighting the desired values and clicking on Add selected.

For highlighting multiple values in APM-UM click on the shift key and the up or down arrow keys on your keyboard.

Type a value

If you have the user, role or tcode name, the easiest way to add the values in the wildcards cell. In case of multiple values, the values should be separated by a comma. In APM-UM it is possible to use * (star) to run a report on multiple users, roles and/or tcodes.

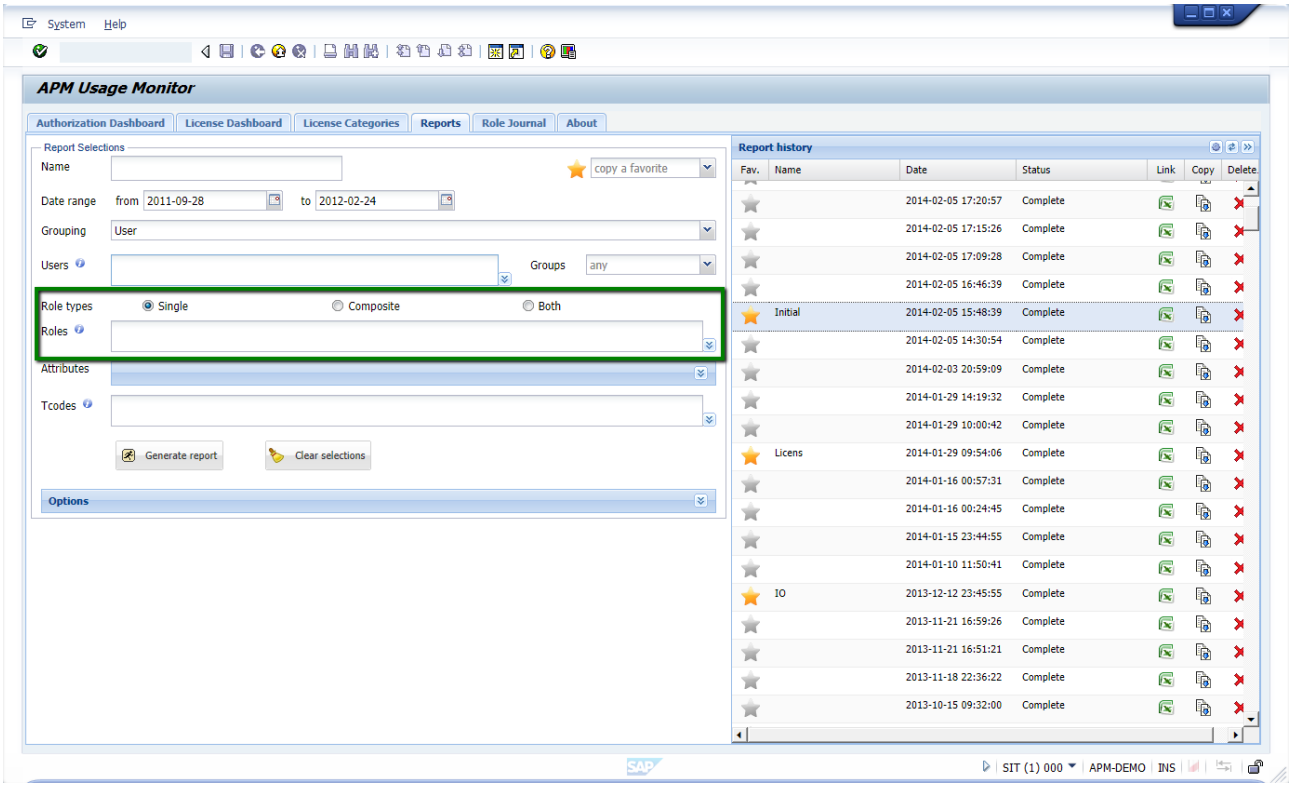


Pasting from the clipboard

If you have an external list of values that you have copied into the clipboard, these can be pasted as selection criteria by clicking .

Selecting composite or single roles

A report in APM-UM can be based on the type of the roles that are been analyzed. In the role selection part three different types can be selected. Options are Composite, Single or Both. The last option will take into account both the single and composite roles and deliver a report where both roles are contained.



Groups

The groups allow a searching on the user groups that are assigned to a user in the tcode SU01.

Attributes

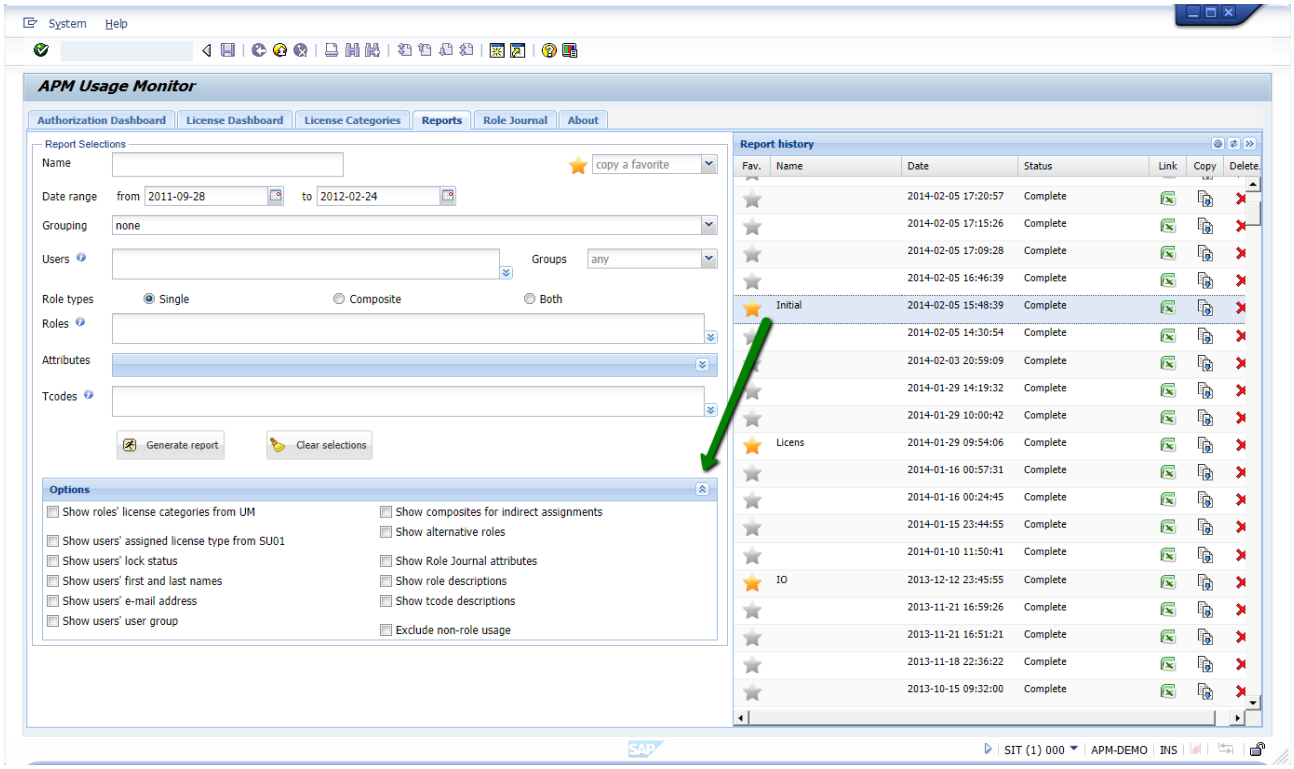
The attributes selection part allows creating reports by selecting the different role journal attributes. In order to get useful results, every role which is assigned to users must be mapped to an attributes on the Role Journal tab. The "License Category" attribute is a standard attribute and depends on the license mapping done in the APM-UM "License Categories".

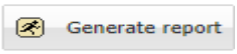
More options

By More options it's possible to add new columns on your reports. You can choose from the following options

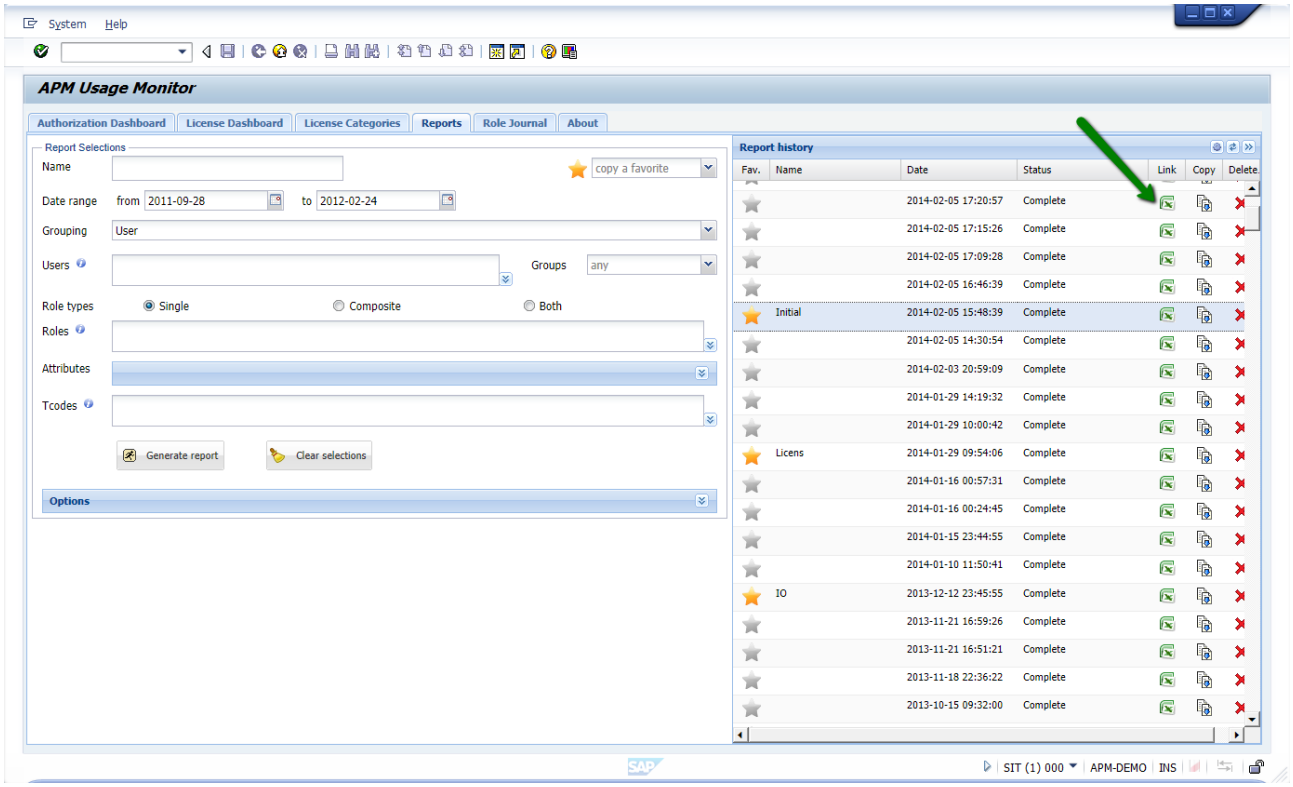
Show roles' license categories from UM:	Adds a column to the reports with the license categories created and managed in the License Categories tab
Show users' assigned license type from SU01:	Adds a column to the report with the license type assigned to the users in standard SAP SU01

Show Users' lock status:	A column will be added to the reports with the user's lock status on the system
Show users' first and last name:	Shows the user's first and last names
Show alternative roles:	Adds a column with a role name, if the same tcode executed by a user is contained in two different roles
Show role description:	It shows a column with the description of the roles from the standard SAP tcode PFCG
Show tcode description:	It shows a column with the description of the tcodes
Exclude non-role usage:	Shows only the tcode usage, if the tcode is assigned to a role. This means that report will not show if the tcode executed by a user is assigned to the user via a profile
Show composites for indirect assignments:	This option may be selected to include an additional column which, for indirectly assigned single roles, shows the names of the composite roles through which they are assigned Note: Only available when single roles are included in the report (i.e. when Role Type is set to "Single" or "Both")



After making the desired selections click on  button to start generating a report.

When the report is created, it shows up in the Report history list. It normally takes some time for the system to generate a report. A report is available when an Excel icon appears in the link column.



The Report history part contains the following information.

Favorite:	Mark a report as a favorite by clicking ☆
Name:	Add or change a report name by double clicking on the name field
Created:	The time when creation of the report was initiated
Status:	Can take the following values:

- Queued: queued behind one or several other reports
- Initializing: the report is initialized
- Preparing selection tables: the report prepares the selection done in the selection part
- Calculating the size: the report size in excel is been calculated
- Generating X rows: The X indicates the size of the finished report
- Generating X rows - report will be truncated: As excel has a

size limitation depending on the excel version, this status will indicated in an early stage of the report generation that the report in excel will not shows all of the data that was selected for.

- Creating file: The data is been retrieved the report is ready to be created
- Complete: the report is ready to be downloaded
- Partial: the report generator could not save all rows in the report
- Failed: the report has failed
- Killed: the unfinished report is been manually stopped by the user

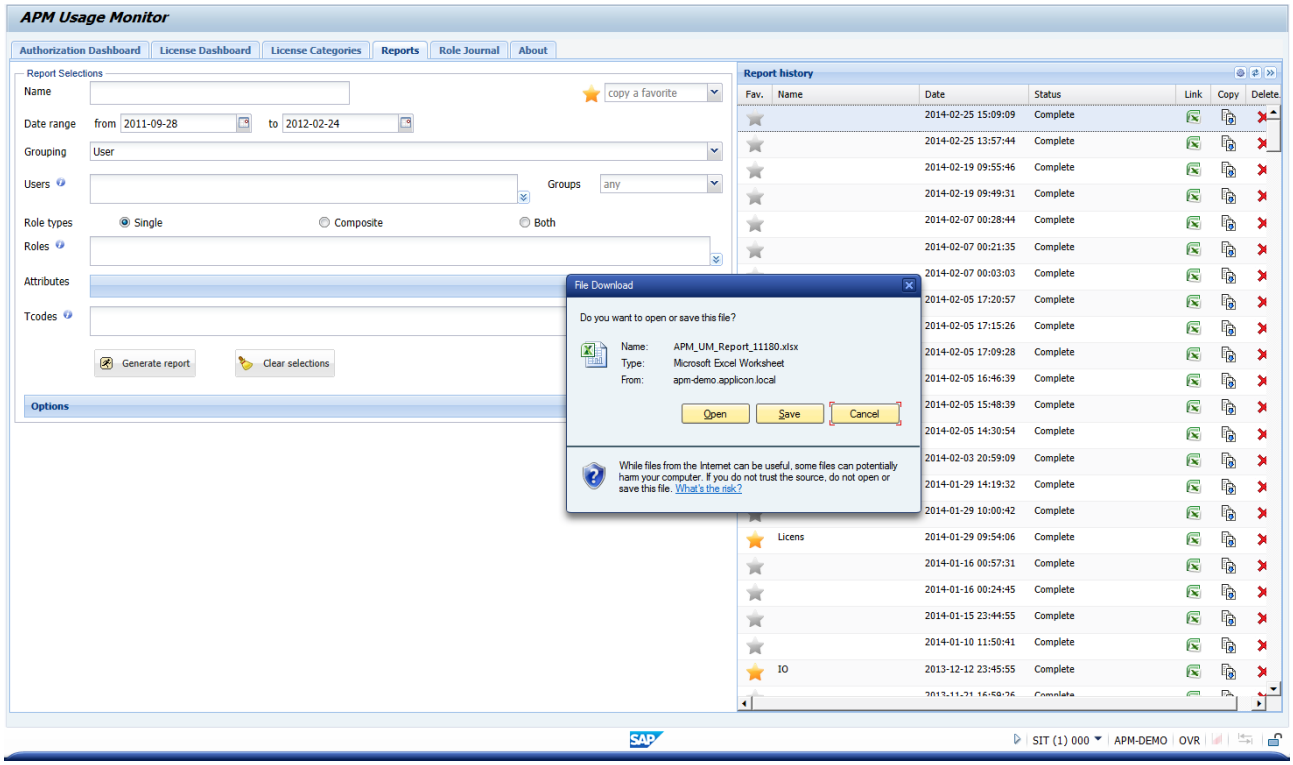
Link: Can display the following icons:

- When the report is created it shows up with the icon
- The icon shows up, when the report is finished, but the report generator ran out of RAM and could not save all rows in the report, The report is downloadable by clicking the icon
- The icon shows up, when the report is no longer available
- The icon shows up, when the report generator is stopped before the report is generated, start the generator by clicking the icon
- The icon shows up, when the report has failed and will not be automatically restarted, can be forced to reboot by clicking the icon

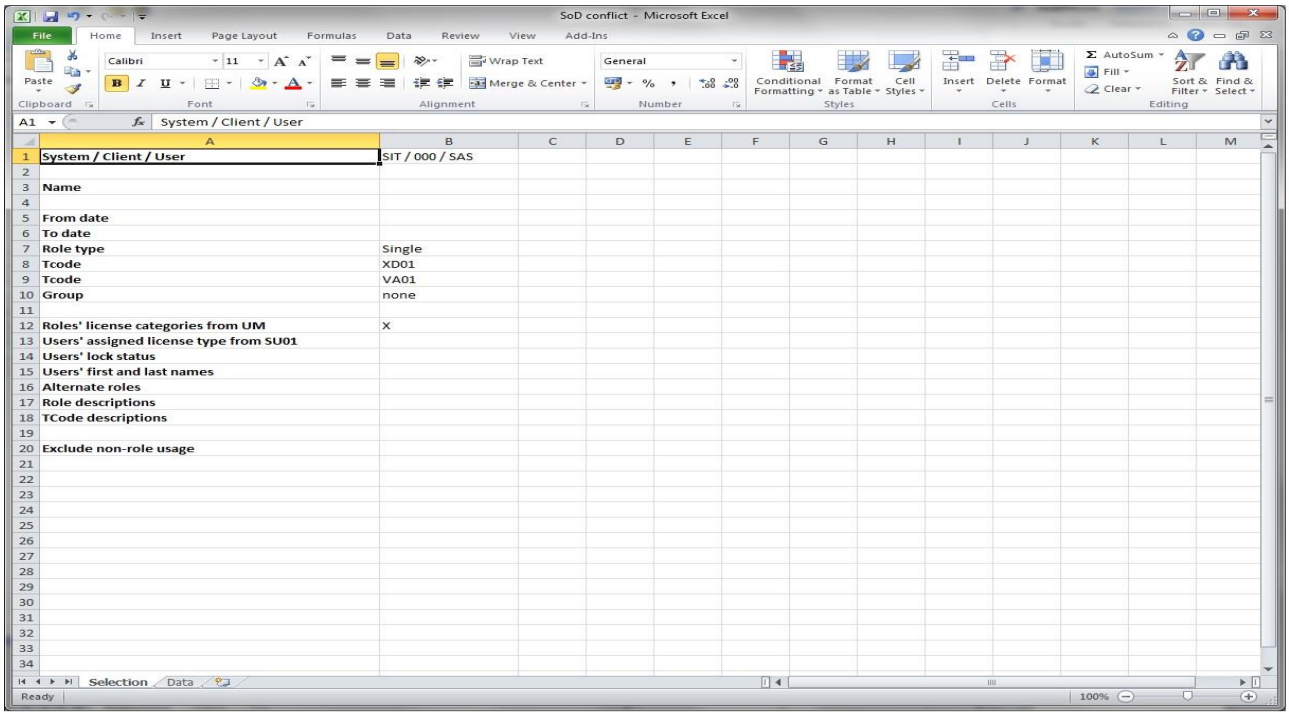
Copy: The selection criteria of an already generated report can be copied to the Report selection part by clicking

Delete: Delete a generated report by clicking

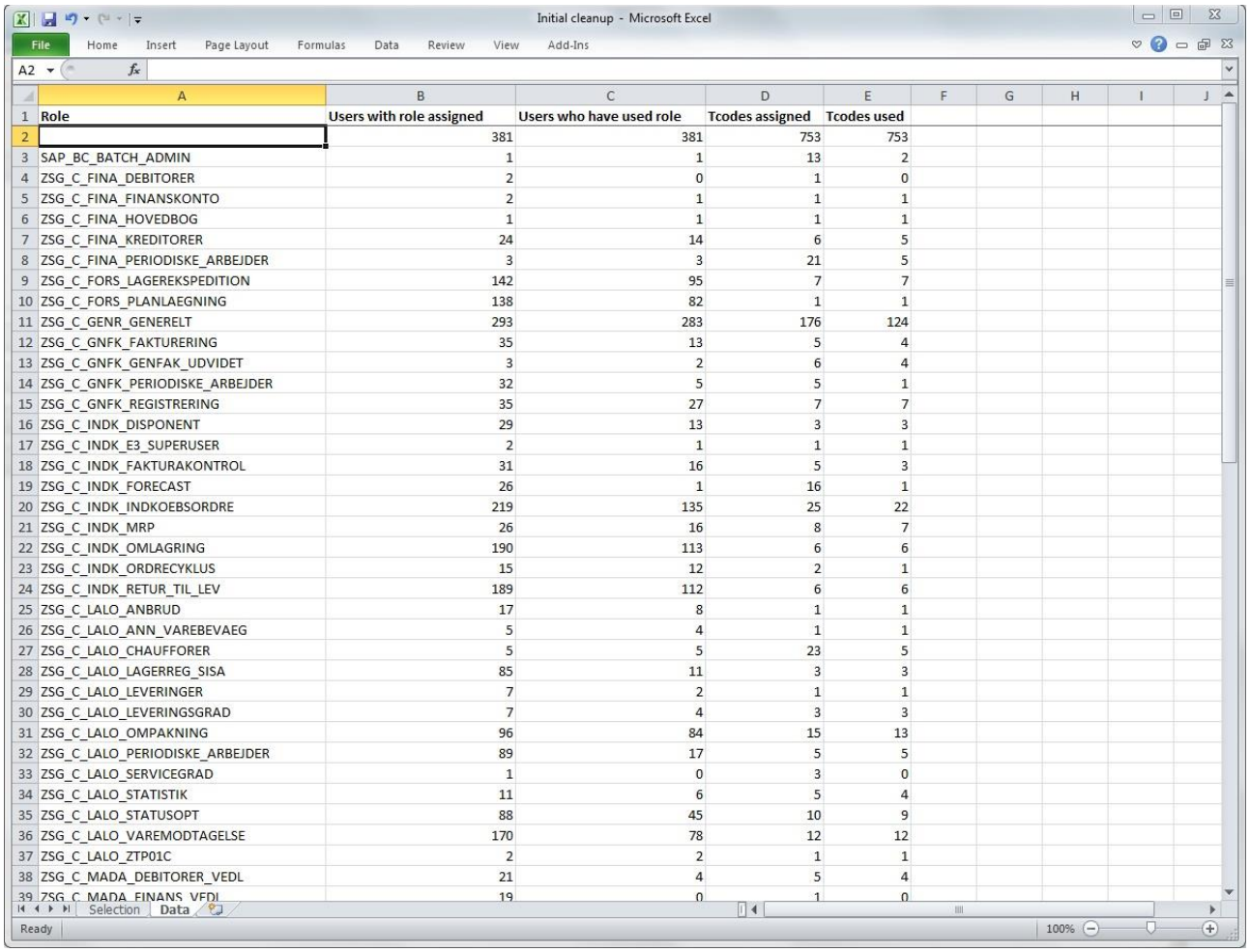
Opening the report is done by clicking on the icon. The process from here is the normal process for saving and further work with an excel file.



The standard APM-UM report contains two sheets. The sheet called selection describes your report data selections and the system, client and the user name that created the report.

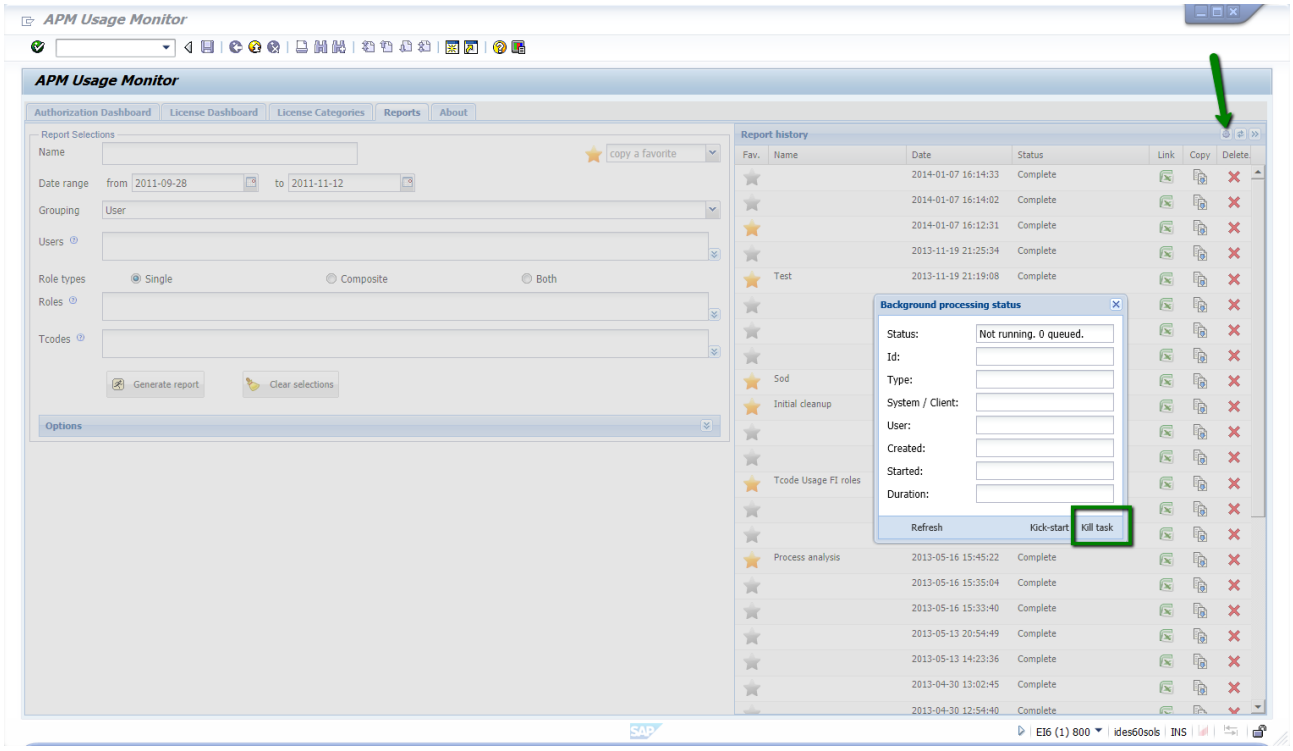


The second sheet called Data contains the report data. The number of columns in the report depends on selection criteria. The following data manipulation in excel, will not be saved in reports that exist in APM_UM.



	Role	Users with role assigned	Users who have used role	Tcodes assigned	Tcodes used
2		381	381	753	753
3	SAP_BC_BATCH_ADMIN	1	1	13	2
4	ZSG_C_FINA_DEBITORER	2	0	1	0
5	ZSG_C_FINA_FINANSKONTO	2	1	1	1
6	ZSG_C_FINA_HOVEDBOG	1	1	1	1
7	ZSG_C_FINA_KREDITORER	24	14	6	5
8	ZSG_C_FINA_PERIODISKE_ARBEJDER	3	3	21	5
9	ZSG_C_FORS_LAGEREKSPEDITION	142	95	7	7
10	ZSG_C_FORS_PLANLAEGNING	138	82	1	1
11	ZSG_C_GENR_GENERELT	293	283	176	124
12	ZSG_C_GNFK_FAKTURERING	35	13	5	4
13	ZSG_C_GNFK_GENFAK_UDVIDET	3	2	6	4
14	ZSG_C_GNFK_PERIODISKE_ARBEJDER	32	5	5	1
15	ZSG_C_GNFK_REGISTRERING	35	27	7	7
16	ZSG_C_INDK_DISPONENT	29	13	3	3
17	ZSG_C_INDK_E3_SUPERUSER	2	1	1	1
18	ZSG_C_INDK_FAKTURAKONTROL	31	16	5	3
19	ZSG_C_INDK_FORECAST	26	1	16	1
20	ZSG_C_INDK_INDKOEBSORDRE	219	135	25	22
21	ZSG_C_INDK_MRP	26	16	8	7
22	ZSG_C_INDK_OMLAGRING	190	113	6	6
23	ZSG_C_INDK_ORDRECYKLUS	15	12	2	1
24	ZSG_C_INDK_RETUR_TIL_LEV	189	112	6	6
25	ZSG_C_LALO_ANBRUD	17	8	1	1
26	ZSG_C_LALO_ANN_VAREBEVAEG	5	4	1	1
27	ZSG_C_LALO_CHAUFFORER	5	5	23	5
28	ZSG_C_LALO_LAGERREG_SISA	85	11	3	3
29	ZSG_C_LALO_LEVERINGER	7	2	1	1
30	ZSG_C_LALO_LEVERINGSGRAD	7	4	3	3
31	ZSG_C_LALO_OMPAKNING	96	84	15	13
32	ZSG_C_LALO_PERIODISKE_ARBEJDER	89	17	5	5
33	ZSG_C_LALO_SERVICEGRAD	1	0	3	0
34	ZSG_C_LALO_STATISTIK	11	6	5	4
35	ZSG_C_LALO_STATUSOPT	88	45	10	9
36	ZSG_C_LALO_VAREMODTAGELSE	170	78	12	12
37	ZSG_C_LALO_ZTP01C	2	2	1	1
38	ZSG_C_MADA_DEBITORER_VEDL	21	4	5	4
39	ZSG_C_MADA_FINANS_VEDL	19	0	1	0

Recommendations: Time for creating a report depends on the size of the data set being analyzed based on the report selections. Therefore, running a full report on Users, Roles and/or Tcodes, will take a long time to generate the report especially if you have a large system landscape. There is the option to cancel an unfinished report. This is done by clicking on the ⚙ sign in the top right hand side of the report history part.


APM Usage Monitor
APM Usage Monitor
Authorization Dashboard
License Dashboard
License Categories
Reports
About
Report Selections
Name
copy a favorite
Date range
from 2011-09-28
to 2011-11-12
Grouping
User
Users
Role types
Single
Composite
Both
Roles
Tcodes
Generate report
Clear selections
Options
Report history
Fav.
Name
Date
Status
Link
Copy
Delete
2014-01-07 16:14:33 Complete
2014-01-07 16:14:02 Complete
2014-01-07 16:12:31 Complete
2013-11-19 21:25:34 Complete
Test
2013-11-19 21:19:08 Complete
Sod
Initial cleanup
Tcode Usage FI roles
Process analysis
2013-05-16 15:45:22 Complete
2013-05-16 15:35:04 Complete
2013-05-16 15:33:40 Complete
2013-05-13 20:54:49 Complete
2013-05-13 14:23:36 Complete
2013-04-30 13:02:45 Complete
Background processing status
Status:
Not running. 0 queued.
Id:
Type:
System / Client:
User:
Created:
Started:
Duration:
Refresh
Kick-start
Kill task
EI6 (1) 800
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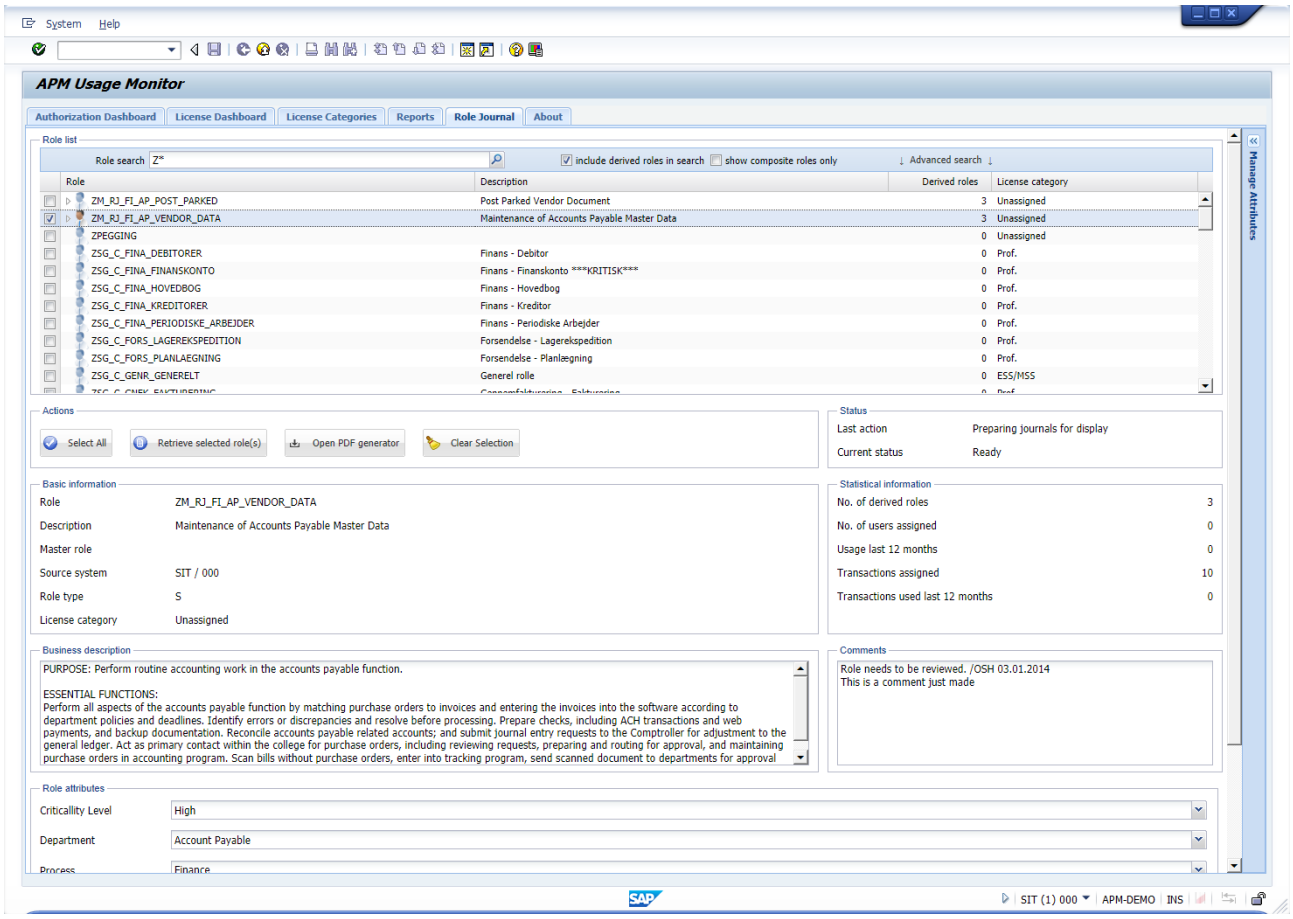
9. Role Journal

The Role Journal (RJ) helps you keep track of SAP Role documentation. RJ delivers data related to standard role documentation, such as role name, technical role name, role type and assigned transactions codes. It also delivers data in regards to number of derived roles, users assigned to roles, transactions assigned to roles which are delivered to RJ from the SAP system and, the usage data related to roles that comes from the APM-UM. This system-generated data can be combined with manually maintained data in the RJ tab, such as a business description, comments and attributes. In the reporting in APM-UM it's possible to create reports by selecting the different attributes created in RJ.


System Help
APM Usage Monitor
Authorization Dashboard
License Dashboard
License Categories
Reports
Role Journal
About
Role list
Role search Z*
include derived roles in search
show composite roles only
Advanced search
Role
Description
Derived roles
License category
ZM_RJ_FI_AP_POST_PARKED Post Parked Vendor Document 3 Unassigned
ZM_RJ_FI_AP_VENDOR_DATA Maintenance of Accounts Payable Master Data 3 Unassigned
ZPEGGING 0 Unassigned
ZSG_C_FINA_DEBITORER Finans - Debitor 0 Prof.
ZSG_C_FINA_FINANSKONTO Finans - Finanskonto ***KRITISK*** 0 Prof.
ZSG_C_FINA_HOVEDBOG Finans - Hovedbog 0 Prof.
ZSG_C_FINA_KREDITORER Finans - Kreditor 0 Prof.
ZSG_C_FINA_PERIODISKE_ARBEJDER Finans - Periodiske Arbejder 0 Prof.
ZSG_C_FORS_LAGEREKSPEDITION Forsendelse - Lagerekspedition 0 Prof.
ZSG_C_FORS_PLANLAEGNING Forsendelse - Planlægning 0 Prof.
ZSG_C_GENR_GENERELT Generel rolle 0 ESS/MSS
Manage Attributes
Actions
Select All
Retrieve selected role(s)
Open PDF generator
Clear Selection
Status
Last action Preparing journals for display
Current status Ready
Basic information
Role ZM_RJ_FI_AP_VENDOR_DATA
Description Maintenance of Accounts Payable Master Data
Master role
Source system SIT / 000
Role type S
License category Unassigned
Statistical information
No. of derived roles 3
No. of users assigned 0
Usage last 12 months 0
Transactions assigned 10
Transactions used last 12 months 0
Business description
PURPOSE: Perform routine accounting work in the accounts payable function.
ESSENTIAL FUNCTIONS:
Perform all aspects of the accounts payable function by matching purchase orders to invoices and entering the invoices into the software according to department policies and deadlines. Identify errors or discrepancies and resolve before processing. Prepare checks, including ACH transactions and web payments, and backup documentation. Reconcile accounts payable related accounts; and submit journal entry requests to the Comptroller for adjustment to the general ledger. Act as primary contact within the college for purchase orders, including reviewing requests, preparing and routing for approval, and maintaining purchase orders in accounting program. Scan bills without purchase orders, enter into tracking program, send scanned document to departments for approval
Comments
Role needs to be reviewed. /OSH 03.01.2014
This is a comment just made
Role attributes
Criticallity Level High
Department Account Payable
Process Finance
SIT (1) 000
APM-DEMO
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The RJ contains the following sections:

- Role list
- Actions
- Status
- Manage Attributes
- Basic Information
- Statistical information
- Business description
- Comments
- PFCG role description

- Organizational Levels
- Transaction code assignment

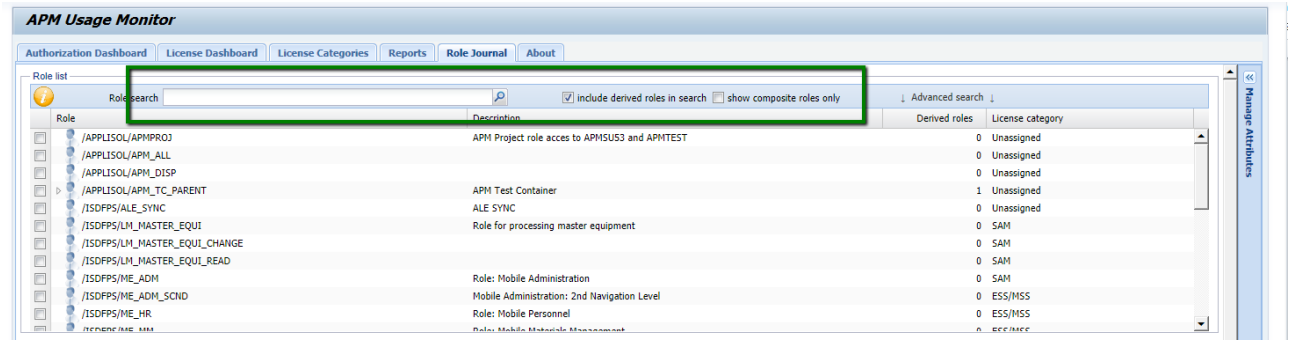
In the following, the different selections' options will be described.

Role list

The role list is the overview of roles in the system. Single and composite roles are listed in alphabetical order. Roles derived from a single role can be unfolded by clicking the triangle left of the role icon.

The orange information circle shows, that the role tree is only showing a limited view of roles. With "Role search" it is possible to narrow the list of roles wanted for journaling, based on the input.

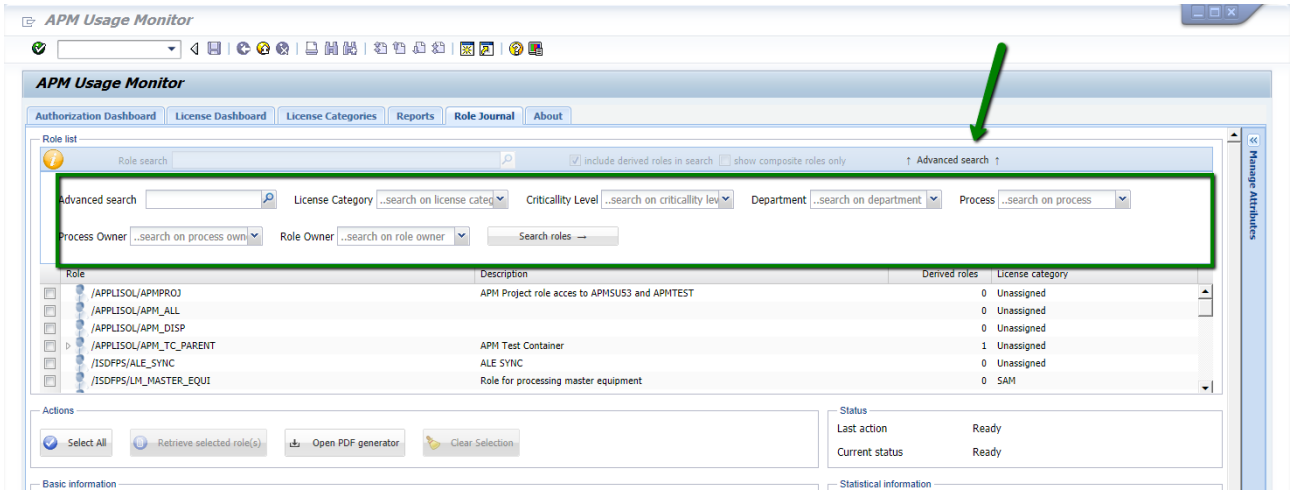
Role search
The text input is for searching in single and composite roles by name – technical or descriptive. Use asterisks as wildcards.



Expanded search
Click the Expanded search button to display the expanded search options.
The expanded search can combine;

- attributes that can be created in RJ
- license category
- text for searching all roles including derived roles.

The text input assumes wildcards everywhere.



Actions

Select All
Select all roles in the Role list section.

Retrieve selected Roles for Journaling
When selecting a role in the Role list by setting the check mark, click on this button to start journaling the specific role. Double click on a single role to choose the role and all roles derived from it. In case of selecting a master role and all of the underlying derived roles, the changes in RJ will be add to all of the roles the are retrieved for journaling.

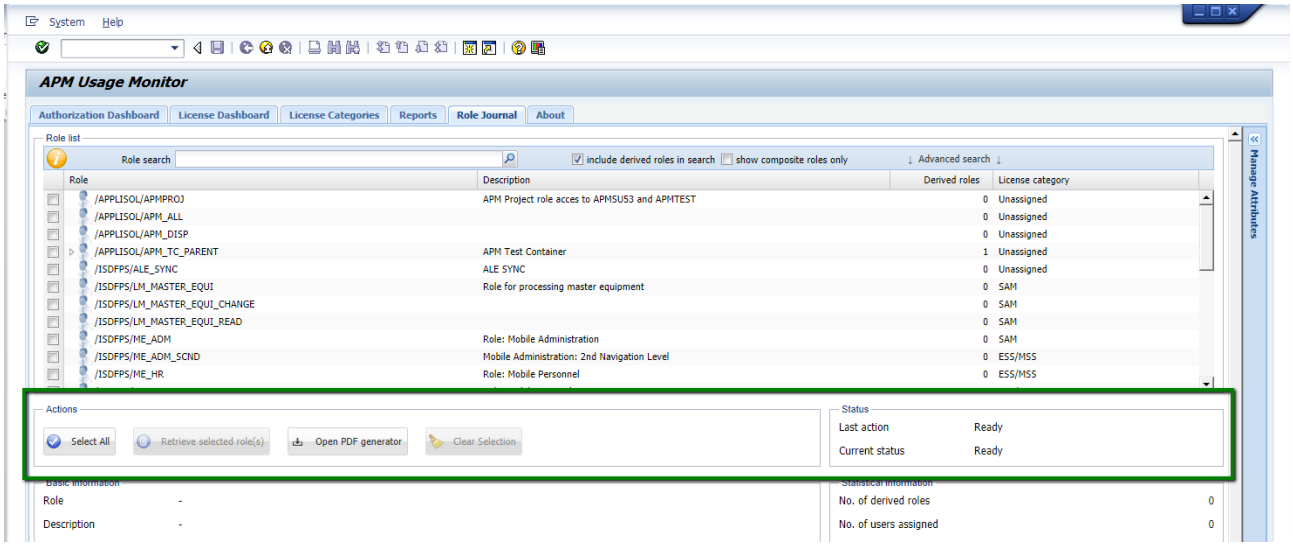
Open PDF generator
Generating journals as PDF files may take some time depending on the number of selected roles. Open the PDF generator to start generating PDF files, cancel or download the result. Multiple journals will be compiled & downloaded as a zip file.

Clear Selection
Unselect all selected roles in the role list.

Status

Last Action
Shows the last action the RJ performed.

Current status
Shows the action the RJ is currently performing. Current status should show “Ready” before starting new tasks.

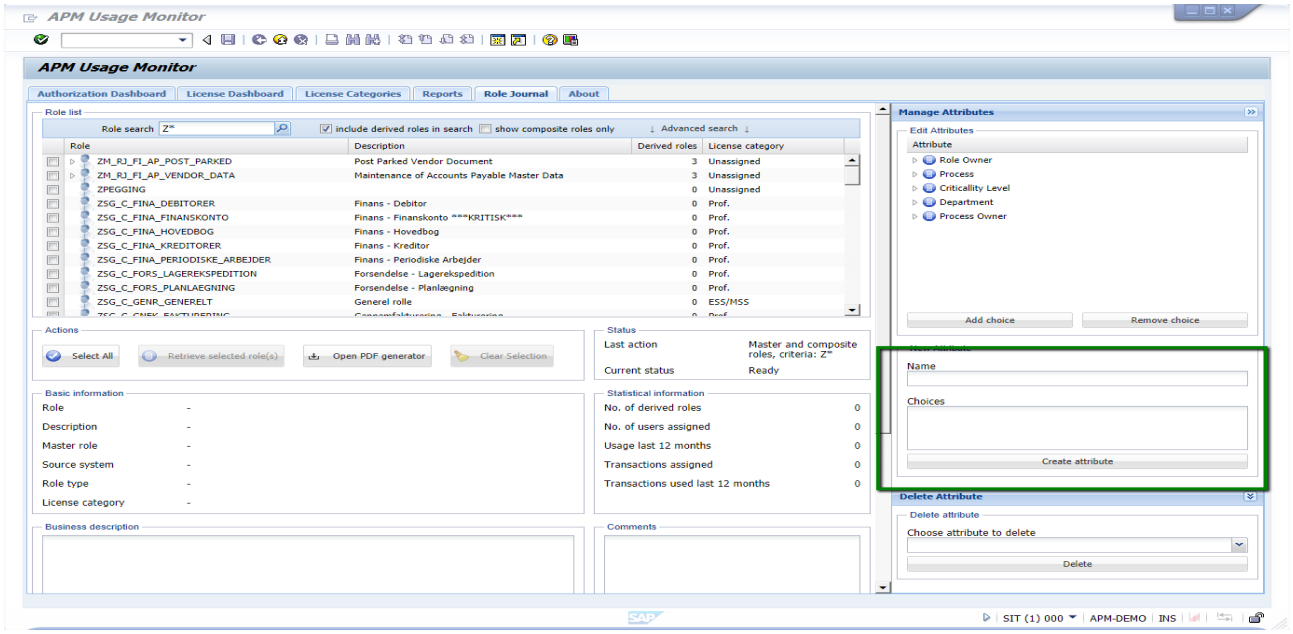


Manage Attributes

The panel for attribute management is placed in the right side of the screen. Click the icon to open the panel. All changes will be updated on the journal page when the "Manage Attributes" panel is closed or the page reloaded.

Create

- Write the name of the new attribute in the "Name"-field under new attribute.
- Write each attribute choice on a new line in the "Choices"-field
- Click on "Create attribute"



Edit attributes

Edit the name of an already created attribute or choice

- Double-click the name. Write the new name and press return or click anywhere.

Remove a choice

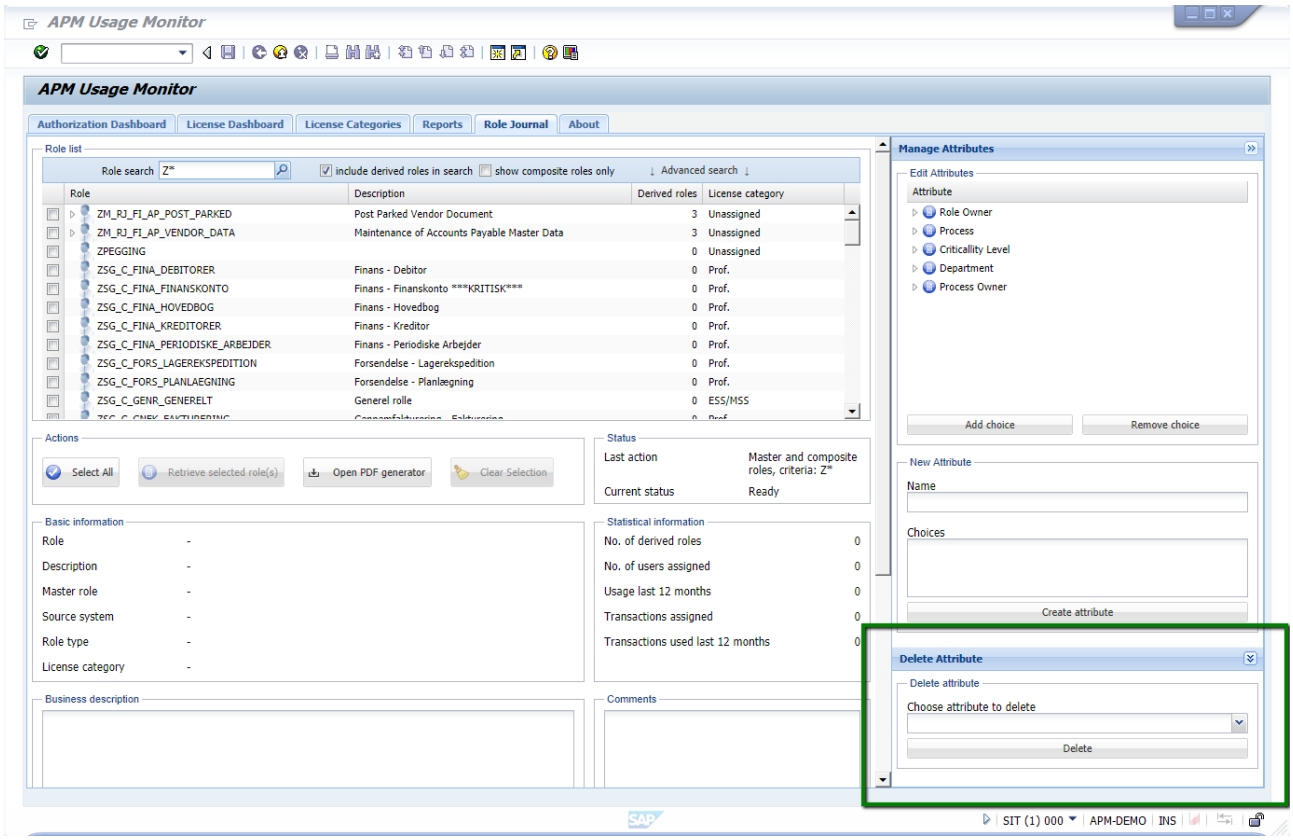
- Select the choice and click Remove choice. Confirm removal if the choice should be removed. Note -This action cannot be undone

Add a new choice by

- Selecting either an attribute or one of its choices to add an extra choice to that attribute
- Click “Add choice”
- Write the name
- Click “Add”

Delete

The delete menu is hidden on an extra panel in the bottom of the attribute management panel. Open the delete menu by click on . Choose the attribute to delete in the drop down list and click “Delete”. Confirm deletion if the attribute should be deleted. This action cannot be undone.



Basic information

This section contains the following information:

Role:	The name of the roles that are selected for journaling
Description:	Add or change a report name by double clicking on the name field
Master role:	The time when creation of the report was initiated
Source system:	Can take the following values: • Queued: queued behind one or several other reports • Initializing: the report is initialized • Preparing selection tables: the report prepares the selection done in the selection part • Calculating the size: the report size in excel is been calculated • Generating X rows: The X indicates the size of the finished report • Generating X rows - report will be truncated: As excel has a size limitation depending on the excel version, this status will indicated in an early stage of the report generation that the report in excel will not shows all of the data that was selected for. • Creating file: The data is been retrieved the report is ready to be created • Complete: the report is ready to be downloaded • Partial: the report generator could not save all rows in the report • Failed: the report has failed • Killed: the unfinished report is been manually stopped by the user
Role type:	S
License category:	Prof

Statistical information

menu is hidden on an extra panel in

Role business description & Comments

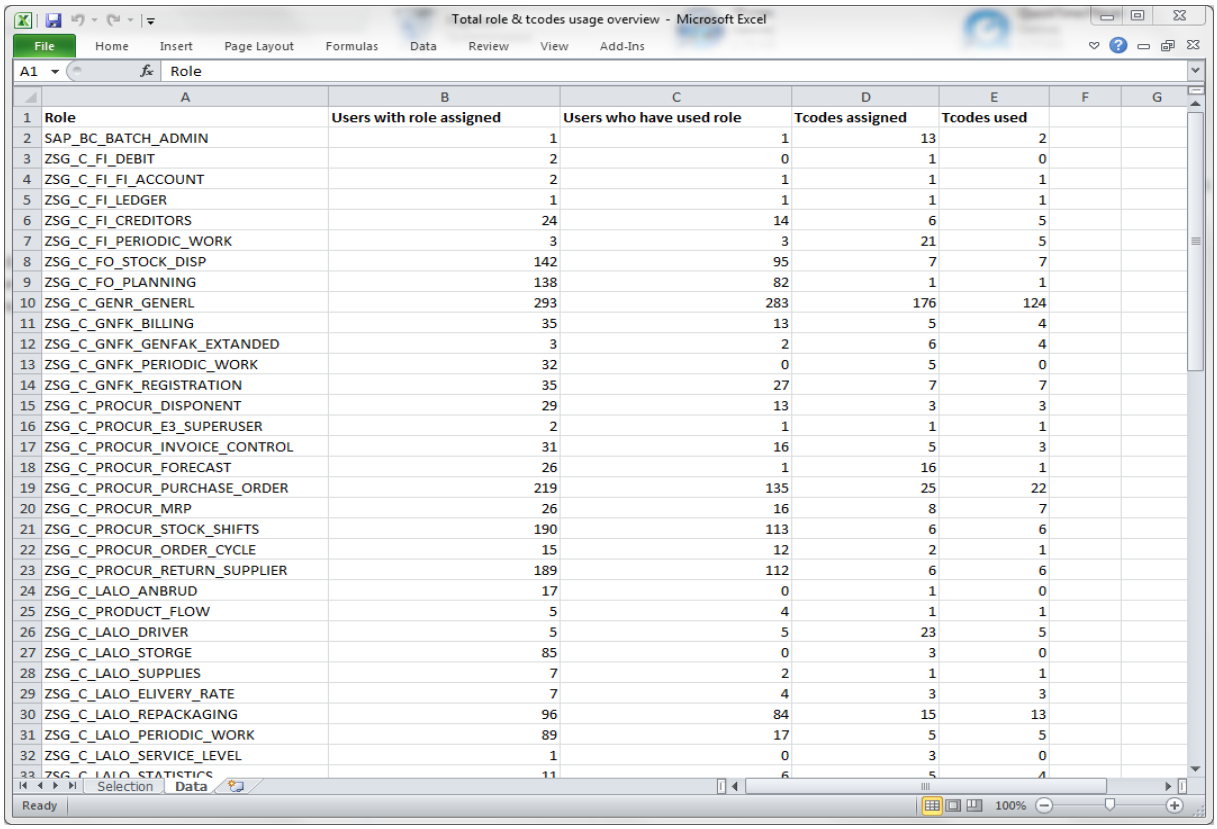
Fill in the desired text and press [TAB] click anywhere outside the field. Data is now saved.

10. Report example

In the following, a few reports will be explained.

10.1. Example 1: Initial authorization concept overview

Selection: Group: Both user and tcode



Role	Users with role assigned	Users who have used role	Tcodes assigned	Tcodes used
SAP_BC_BATCH_ADMIN	1	1	13	2
ZSG_C_FI_DEBIT	2	0	1	0
ZSG_C_FI_FI_ACCOUNT	2	1	1	1
ZSG_C_FI_LEDGER	1	1	1	1
ZSG_C_FI_CREDITORS	24	14	6	5
ZSG_C_FI_PERIODIC_WORK	3	3	21	5
ZSG_C_FO_STOCK_DISP	142	95	7	7
ZSG_C_FO_PLANNING	138	82	1	1
ZSG_C_GENR_GENERL	293	283	176	124
ZSG_C_GNFK_BILLING	35	13	5	4
ZSG_C_GNFK_GENFAK_EXTANDED	3	2	6	4
ZSG_C_GNFK_PERIODIC_WORK	32	0	5	0
ZSG_C_GNFK_REGISTRATION	35	27	7	7
ZSG_C_PROCUR_DISPONENT	29	13	3	3
ZSG_C_PROCUR_E3_SUPERUSER	2	1	1	1
ZSG_C_PROCUR_INVOICE_CONTROL	31	16	5	3
ZSG_C_PROCUR_FORECAST	26	1	16	1
ZSG_C_PROCUR_PURCHASE_ORDER	219	135	25	22
ZSG_C_PROCUR_MRP	26	16	8	7
ZSG_C_PROCUR_STOCK_SHIFTS	190	113	6	6
ZSG_C_PROCUR_ORDER_CYCLE	15	12	2	1
ZSG_C_PROCUR_RETURN_SUPPLIER	189	112	6	6
ZSG_C_LALO_ANBRUD	17	0	1	0
ZSG_C_PRODUCT_FLOW	5	4	1	1
ZSG_C_LALO_DRIVER	5	5	23	5
ZSG_C_LALO_STORGE	85	0	3	0
ZSG_C_LALO_SUPPLIES	7	2	1	1
ZSG_C_LALO_ELIVERY_RATE	7	4	3	3
ZSG_C_LALO_REPACKAGING	96	84	15	13
ZSG_C_LALO_PERIODIC_WORK	89	17	5	5
ZSG_C_LALO_SERVICE_LEVEL	1	0	3	0
ZSG_C_LALO_STATISTICS	11	6	5	4

This report shows the following columns

Role: The name of the roles that are added to a user on the system. An empty role name indicates a profile, such as SAP_ALL, SAP_NEW etc.

Users with role assigned: The number of users assigned to the role.

Users how have used role: The number of users executed a tcode in the specific role.

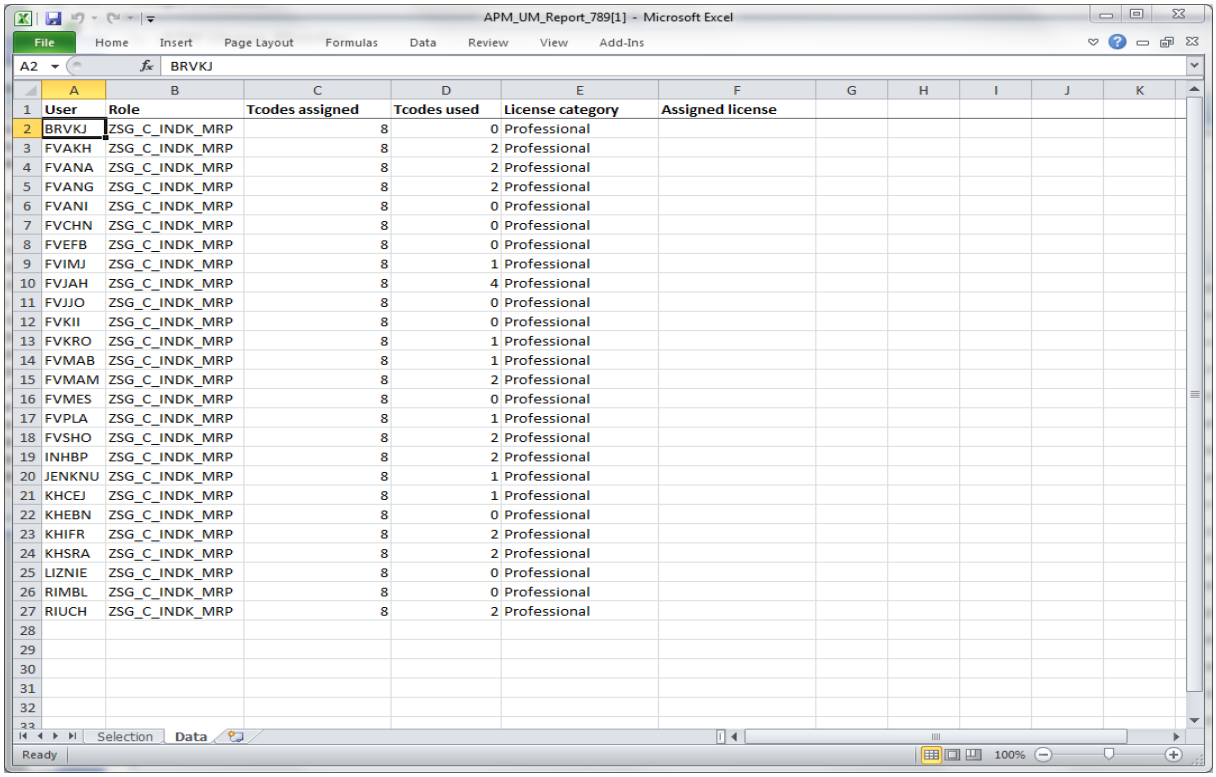
tcodes assigned: The number of tcodes contained in the specific role.

tcodes used: The number of tcodes that are executed and used in the specific role.

Benefits of report information: The report shows a total overview of the allocated roles in the system. By this report an initial cleanup can be initialized. The report is a good way of getting the full picture of roles and tcodes and to what extent they are actually used by the end-users. Use the report to spot a trend and copy for instance the role name of the roles that need the further analysis into the selection screen. In this way, further analysis of other role or tcode usage is possible.

10.2. Example 2: Individual role and tcode usage

Selection: Group: Tcode
Role type: Single
Role: ZSG_C_INDK_MRP
More options: Roles' license categories from UM and Users lock status



	A	B	C	D	E	F	G	H	I	J	K
1	User	Role	Tcodes assigned	Tcodes used	License category	Assigned license					
2	BRVKJ	ZSG_C_INDK_MRP	8	0	Professional						
3	FVAKH	ZSG_C_INDK_MRP	8	2	Professional						
4	FVANA	ZSG_C_INDK_MRP	8	2	Professional						
5	FVANG	ZSG_C_INDK_MRP	8	2	Professional						
6	FVANI	ZSG_C_INDK_MRP	8	0	Professional						
7	FVCHN	ZSG_C_INDK_MRP	8	0	Professional						
8	FVEFB	ZSG_C_INDK_MRP	8	0	Professional						
9	FVIMJ	ZSG_C_INDK_MRP	8	1	Professional						
10	FVJAH	ZSG_C_INDK_MRP	8	4	Professional						
11	FVJJO	ZSG_C_INDK_MRP	8	0	Professional						
12	FVKII	ZSG_C_INDK_MRP	8	0	Professional						
13	FVKRO	ZSG_C_INDK_MRP	8	1	Professional						
14	FVMAB	ZSG_C_INDK_MRP	8	1	Professional						
15	FVMAM	ZSG_C_INDK_MRP	8	2	Professional						
16	FVMES	ZSG_C_INDK_MRP	8	0	Professional						
17	FVPLA	ZSG_C_INDK_MRP	8	1	Professional						
18	FVSHO	ZSG_C_INDK_MRP	8	2	Professional						
19	INHBP	ZSG_C_INDK_MRP	8	2	Professional						
20	JENKNU	ZSG_C_INDK_MRP	8	1	Professional						
21	KHCEJ	ZSG_C_INDK_MRP	8	1	Professional						
22	KHEBN	ZSG_C_INDK_MRP	8	0	Professional						
23	KHIFR	ZSG_C_INDK_MRP	8	2	Professional						
24	KHSRA	ZSG_C_INDK_MRP	8	2	Professional						
25	LIZNIE	ZSG_C_INDK_MRP	8	0	Professional						
26	RIMBL	ZSG_C_INDK_MRP	8	0	Professional						
27	RIUCH	ZSG_C_INDK_MRP	8	2	Professional						
28											
29											
30											
31											
32											

This report shows the following columns:

User: User name of the users assigned to the selected role.

Role: The selected role.

tcodes assigned: The number of tcodes contained in the selected role.

tcodes used: The number of tcodes executed and used in the selected role.

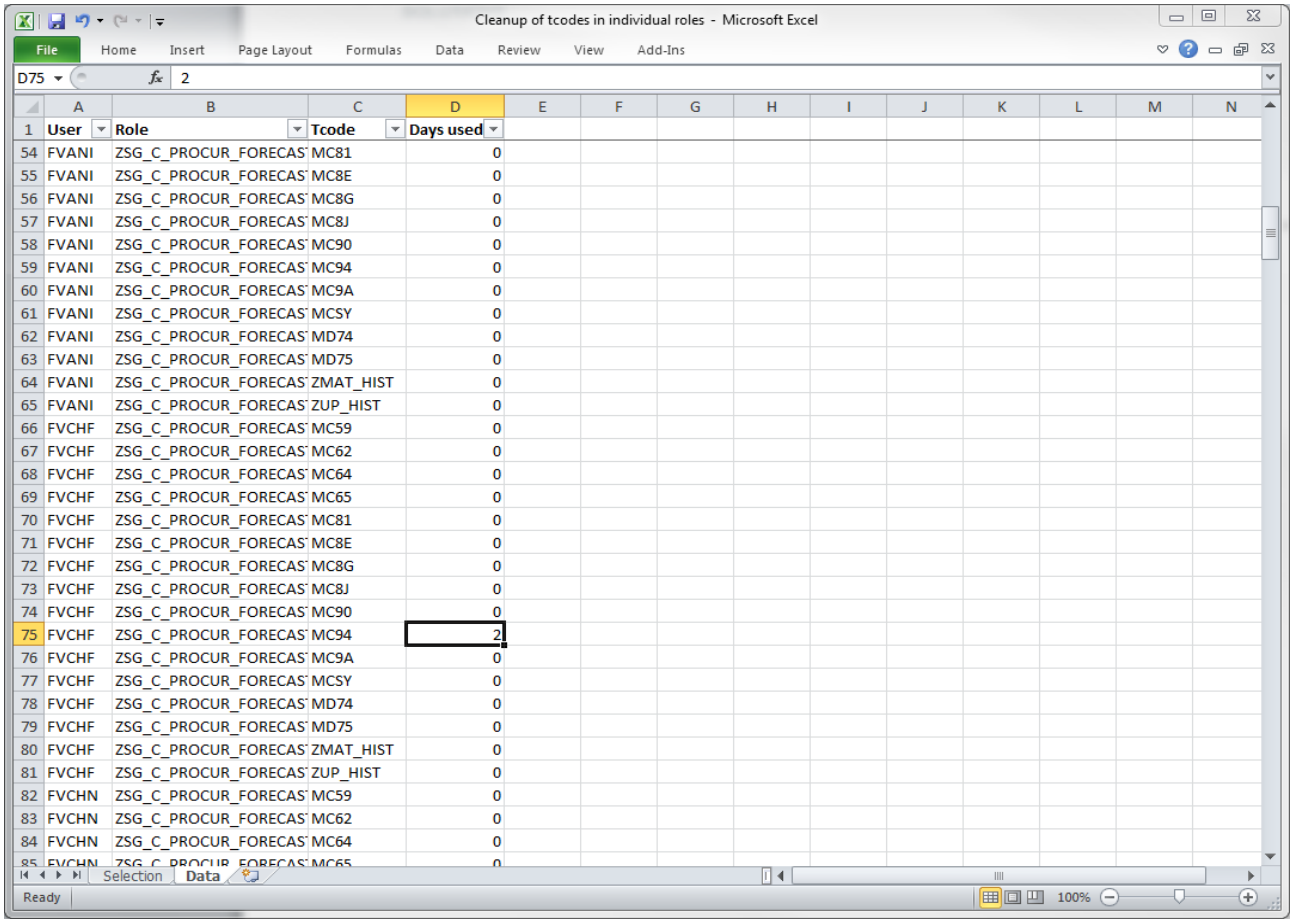
License category: The license category assigned to the role.

Assigned license: The license category that are assigned the user in SU01.

Benefits of report information: The report shows which users are assigned to the selected role and how many of the tcodes contained in the selected role are used by the users. i.e. during a clean-up the roles not used can be identified and removed accordingly.

10.3. Example 3: Cleanup of tcodes in individual roles

Selection: Group: none
Role type: Single
Role: ZSG_C_INDK_MRP



	A	B	C	D
1	User	Role	Tcode	Days used
54	FVANI	ZSG_C_PROCUR_FORECAS	MC81	0
55	FVANI	ZSG_C_PROCUR_FORECAS	MC8E	0
56	FVANI	ZSG_C_PROCUR_FORECAS	MC8G	0
57	FVANI	ZSG_C_PROCUR_FORECAS	MC8J	0
58	FVANI	ZSG_C_PROCUR_FORECAS	MC90	0
59	FVANI	ZSG_C_PROCUR_FORECAS	MC94	0
60	FVANI	ZSG_C_PROCUR_FORECAS	MC9A	0
61	FVANI	ZSG_C_PROCUR_FORECAS	MCSY	0
62	FVANI	ZSG_C_PROCUR_FORECAS	MD74	0
63	FVANI	ZSG_C_PROCUR_FORECAS	MD75	0
64	FVANI	ZSG_C_PROCUR_FORECAS	ZMAT_HIST	0
65	FVANI	ZSG_C_PROCUR_FORECAS	ZUP_HIST	0
66	FVCHF	ZSG_C_PROCUR_FORECAS	MC59	0
67	FVCHF	ZSG_C_PROCUR_FORECAS	MC62	0
68	FVCHF	ZSG_C_PROCUR_FORECAS	MC64	0
69	FVCHF	ZSG_C_PROCUR_FORECAS	MC65	0
70	FVCHF	ZSG_C_PROCUR_FORECAS	MC81	0
71	FVCHF	ZSG_C_PROCUR_FORECAS	MC8E	0
72	FVCHF	ZSG_C_PROCUR_FORECAS	MC8G	0
73	FVCHF	ZSG_C_PROCUR_FORECAS	MC8J	0
74	FVCHF	ZSG_C_PROCUR_FORECAS	MC90	0
75	FVCHF	ZSG_C_PROCUR_FORECAS	MC94	2
76	FVCHF	ZSG_C_PROCUR_FORECAS	MC9A	0
77	FVCHF	ZSG_C_PROCUR_FORECAS	MCSY	0
78	FVCHF	ZSG_C_PROCUR_FORECAS	MD74	0
79	FVCHF	ZSG_C_PROCUR_FORECAS	MD75	0
80	FVCHF	ZSG_C_PROCUR_FORECAS	ZMAT_HIST	0
81	FVCHF	ZSG_C_PROCUR_FORECAS	ZUP_HIST	0
82	FVCHN	ZSG_C_PROCUR_FORECAS	MC59	0
83	FVCHN	ZSG_C_PROCUR_FORECAS	MC62	0
84	FVCHN	ZSG_C_PROCUR_FORECAS	MC64	0

This report shows the following columns:

User: User name of the users who are assigned to the selected role.

Role: The name of the selected role.

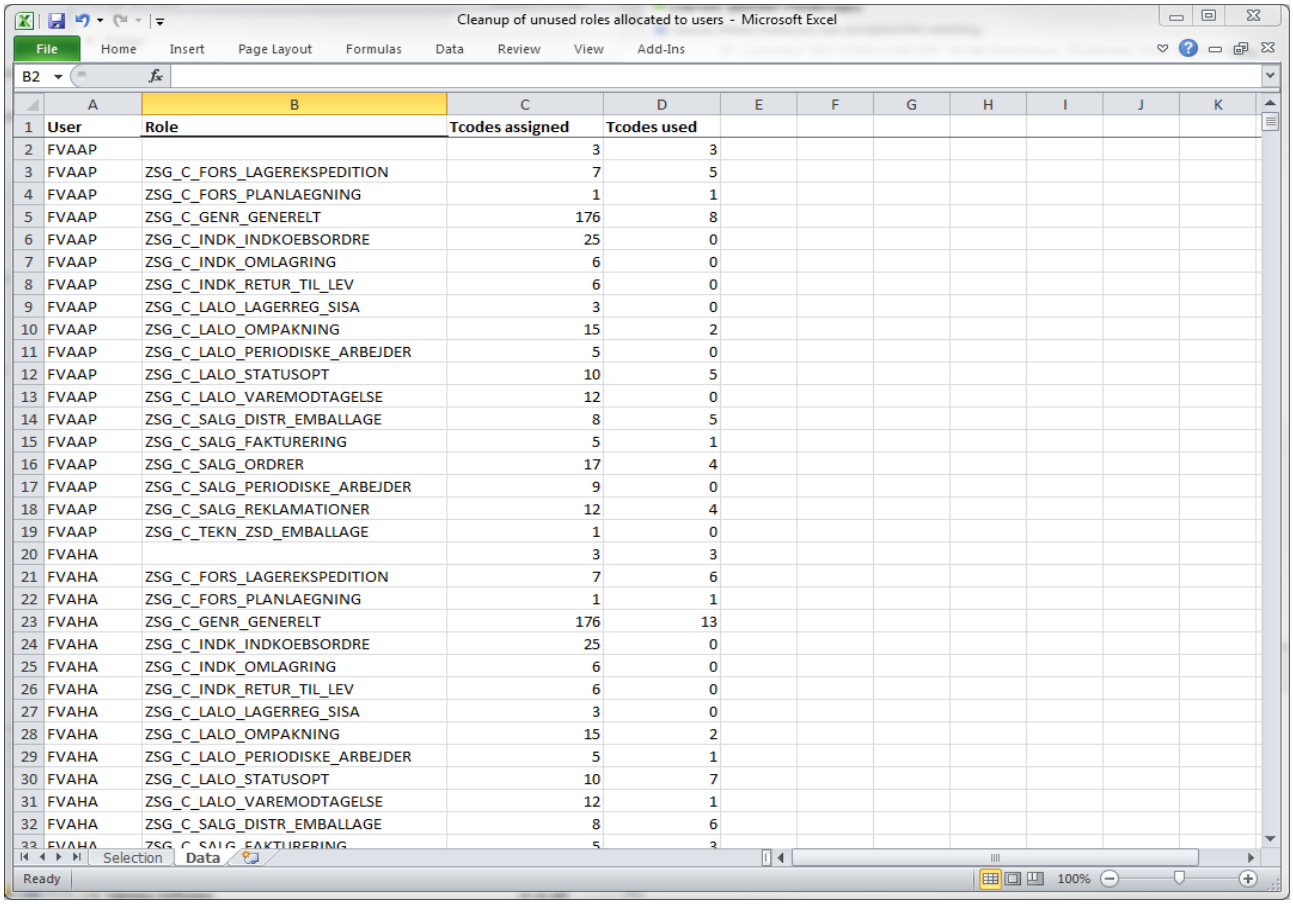
tcode: The tcodes contained in the selected role.

Days used: The numbers of days the tcodes have been used by the users assigned to the role.

Benefits of report information: The report shows which transactions in the selected role have been used by which users or the opposite. In other words, the report shows you which transactions to keep and which could be left out in cleanup phase.

10.4. Example 4: Cleanup of unused roles allocated to a list of users

Selection: Group: tcode
Users: FV*



	A	B	C	D	E	F	G	H	I	J	K
1	User	Role	Tcodes assigned	Tcodes used							
2	FVAAP		3	3							
3	FVAAP	ZSG_C_FORS_LAGEREKSPEDITION	7	5							
4	FVAAP	ZSG_C_FORS_PLANLAEGNING	1	1							
5	FVAAP	ZSG_C_GENR_GENERELT	176	8							
6	FVAAP	ZSG_C_INDK_INDKOEBSORDRE	25	0							
7	FVAAP	ZSG_C_INDK_OMLAGRING	6	0							
8	FVAAP	ZSG_C_INDK_RETUR_TIL_LEV	6	0							
9	FVAAP	ZSG_C_LALO_LAGERREG_SISA	3	0							
10	FVAAP	ZSG_C_LALO_OMPAKNING	15	2							
11	FVAAP	ZSG_C_LALO_PERIODISKE_ARBEJDER	5	0							
12	FVAAP	ZSG_C_LALO_STATUSOPT	10	5							
13	FVAAP	ZSG_C_LALO_VAREMODTAGELSE	12	0							
14	FVAAP	ZSG_C_SALG_DISTR_EMBALLAGE	8	5							
15	FVAAP	ZSG_C_SALG_FAKTURERING	5	1							
16	FVAAP	ZSG_C_SALG_ORDRER	17	4							
17	FVAAP	ZSG_C_SALG_PERIODISKE_ARBEJDER	9	0							
18	FVAAP	ZSG_C_SALG_REKLAMATIONER	12	4							
19	FVAAP	ZSG_C_TEKN_ZSD_EMBALLAGE	1	0							
20	FVAHA		3	3							
21	FVAHA	ZSG_C_FORS_LAGEREKSPEDITION	7	6							
22	FVAHA	ZSG_C_FORS_PLANLAEGNING	1	1							
23	FVAHA	ZSG_C_GENR_GENERELT	176	13							
24	FVAHA	ZSG_C_INDK_INDKOEBSORDRE	25	0							
25	FVAHA	ZSG_C_INDK_OMLAGRING	6	0							
26	FVAHA	ZSG_C_INDK_RETUR_TIL_LEV	6	0							
27	FVAHA	ZSG_C_LALO_LAGERREG_SISA	3	0							
28	FVAHA	ZSG_C_LALO_OMPAKNING	15	2							
29	FVAHA	ZSG_C_LALO_PERIODISKE_ARBEJDER	5	1							
30	FVAHA	ZSG_C_LALO_STATUSOPT	10	7							
31	FVAHA	ZSG_C_LALO_VAREMODTAGELSE	12	1							
32	FVAHA	ZSG_C_SALG_DISTR_EMBALLAGE	8	6							
33	FVAHA	ZSG_C_SALG_FAKTURERING	5	3							

This report shows the following columns:

User: User name of the users assigned to the selected role.

Role: The name of the role allocated to users.

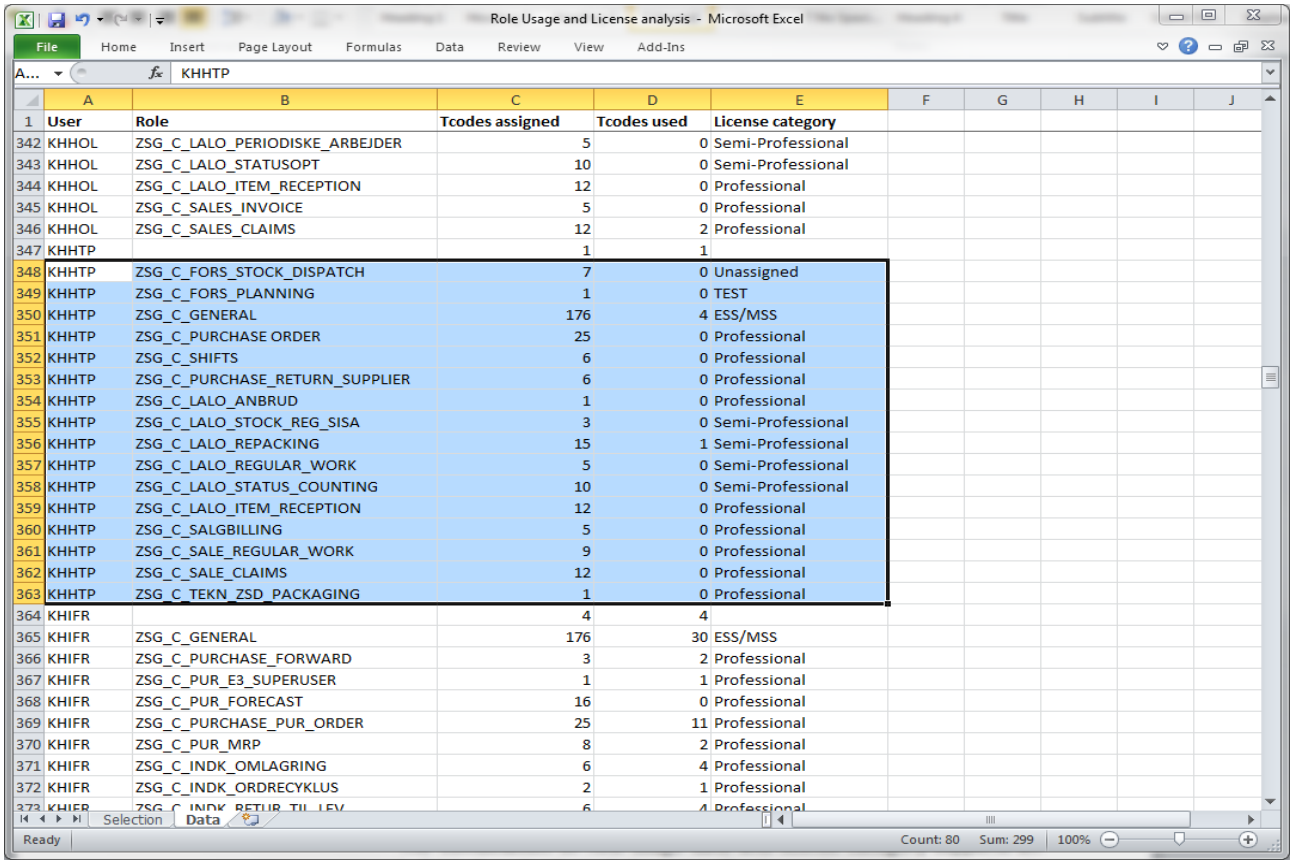
Tcodes assigned: The number of tcodes contained in the role assigned to the users in search for.

Tcodes used: The numbers of days the tcodes have been used by the users assigned to the role.

Benefits of report information: The report gives an overview of which roles have been used by which users. By filtering on the column “tcodes used” you can deliver a list with either the roles used or roles not used. In a cleanup the unused roles information makes a quick win and for the process/business analysis the used roles gives input about who is doing what.

10.5. Example 5: Role Usage and license analysis

Selection: Group: tcode
Users: KH*
More options: Roles' license categories from UM and Users lock status



	User	Role	Tcodes assigned	Tcodes used	License category
342	KHHOL	ZSG_C_LALO_PERIODISKE_ARBEJDER	5	0	Semi-Professional
343	KHHOL	ZSG_C_LALO_STATUSOPT	10	0	Semi-Professional
344	KHHOL	ZSG_C_LALO_ITEM_RECEPTION	12	0	Professional
345	KHHOL	ZSG_C_SALES_INVOICE	5	0	Professional
346	KHHOL	ZSG_C_SALES_CLAIMS	12	2	Professional
347	KHHTP		1	1	
348	KHHTP	ZSG_C_FORS_STOCK_DISPATCH	7	0	Unassigned
349	KHHTP	ZSG_C_FORS_PLANNING	1	0	TEST
350	KHHTP	ZSG_C_GENERAL	176	4	ESS/MSS
351	KHHTP	ZSG_C_PURCHASE ORDER	25	0	Professional
352	KHHTP	ZSG_C_SHIFTS	6	0	Professional
353	KHHTP	ZSG_C_PURCHASE_RETURN_SUPPLIER	6	0	Professional
354	KHHTP	ZSG_C_LALO_ANBRUD	1	0	Professional
355	KHHTP	ZSG_C_LALO_STOCK_REG_SISA	3	0	Semi-Professional
356	KHHTP	ZSG_C_LALO_REPACKING	15	1	Semi-Professional
357	KHHTP	ZSG_C_LALO_REGULAR_WORK	5	0	Semi-Professional
358	KHHTP	ZSG_C_LALO_STATUS_COUNTING	10	0	Semi-Professional
359	KHHTP	ZSG_C_LALO_ITEM_RECEPTION	12	0	Professional
360	KHHTP	ZSG_C_SALGBILLING	5	0	Professional
361	KHHTP	ZSG_C_SALE_REGULAR_WORK	9	0	Professional
362	KHHTP	ZSG_C_SALE_CLAIMS	12	0	Professional
363	KHHTP	ZSG_C_TEKN_ZSD_PACKAGING	1	0	Professional
364	KHIFR		4	4	
365	KHIFR	ZSG_C_GENERAL	176	30	ESS/MSS
366	KHIFR	ZSG_C_PURCHASE_FORWARD	3	2	Professional
367	KHIFR	ZSG_C_PUR_E3_SUPERUSER	1	1	Professional
368	KHIFR	ZSG_C_PUR_FORECAST	16	0	Professional
369	KHIFR	ZSG_C_PURCHASE_PUR_ORDER	25	11	Professional
370	KHIFR	ZSG_C_PUR_MRP	8	2	Professional
371	KHIFR	ZSG_C_INDK_OMLAGRING	6	4	Professional
372	KHIFR	ZSG_C_INDK_ORDRECYKLUS	2	1	Professional

This report shows the following columns:

User: User name of the users how are assigned to the selected role.

Role: The name of the role allocated to users.

Tcodes assigned: The number of tcodes contained in the role assigned to the users searched for.

Tcodes used: The numbers of days the tcodes have been used by the users assigned to the role.

Benefits of report information: The report delivers an overview of selected users and the role usage. The UM maintained license category is switched on giving the information on the license category of the individual roles.
The combination of role usage data and license category supports an individual evaluation of the users if a lower license categorization is possible.
In the example the user in the highlighted area can be moved from professional to semi-professional by removing the unused roles.

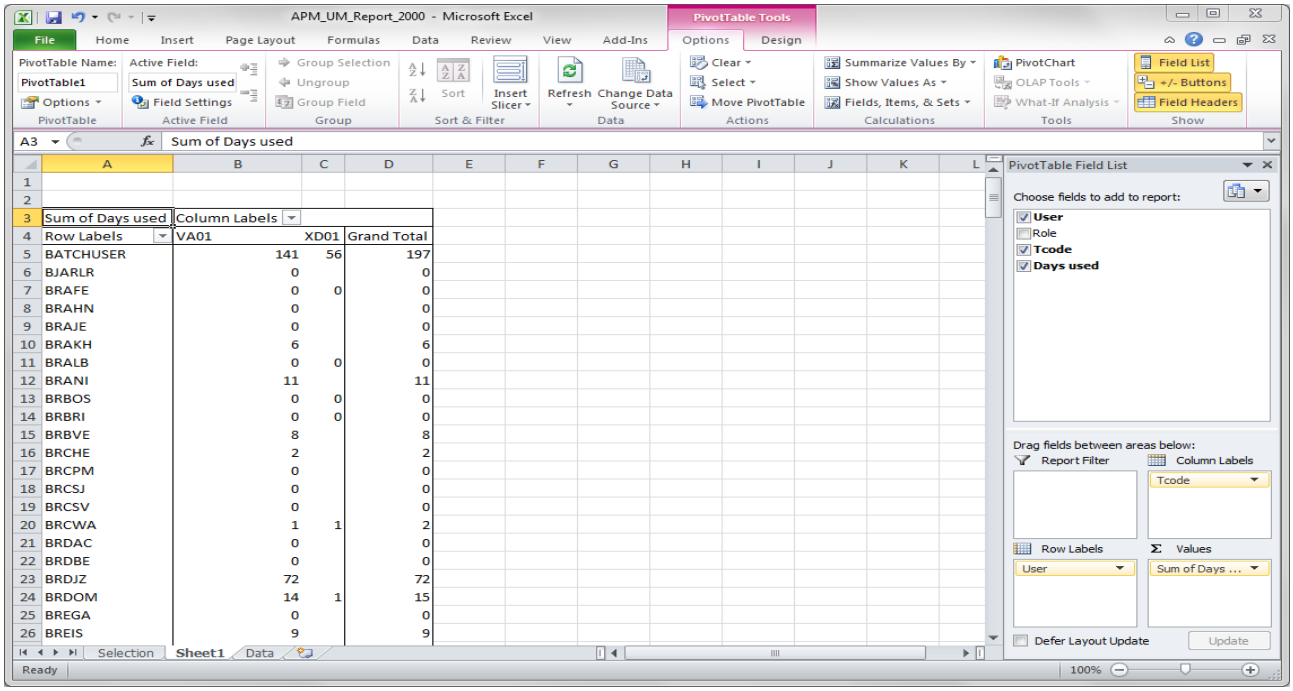
10.6. Example 6: False positive SoD conflicts

Selection: Group: none
Tcode: XD01 and VA01

When the report is generated save the report to a folder of your own choice. Otherwise Excel doesn't allow you to make a Pivot table, which is perfect for the analysis.

Now choose the Insert menu in Excel and the PivotTable option.

Now drag the "User" to the "Row Labels" area, "Tcode" to the "Column Labels" area and "Days used" into "Values" area. The report will look like this.



This report shows the following interesting columns

Row Labels: User name of the users who have the SoD conflicts or authorization to one of the tcode.

Column Labels: The tcode selected and the numbers of days the tcodes have been used by the users. What you see in these columns is that if there is a value in both columns the users have the SoD conflict combination and if the value is zero then we know that the tcode have not been used by the users. If there is no value in of the columns, it means that the user do is not authorized to the tcode.

Benefits of report information: You can identify your false positives SoD conflicts. Now you can begin cleaning and removing tcodes that causes SoD conflicts, but not been used (false positives). Furthermore, the report gives you the overview of all users mitigated and you will have a full overview of which users are actually using the tcodes that causes the SoD conflicts and which users are actually not using the tcodes causing the SoD conflicts.